May 1990

DX ONTARIO

MONITORING THE WORLD VIA RADIO SINCE 1975

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Let Us Introduce You To The ONTARIO DX ASSOCIATION

The **Ontario DX Association** (ODXA) is a club of shortwave listeners and DX enthusiasts who live in the province of Ontario. We are incorporated under the laws of theProvince of Ontario. The ODXA was organized in late 1974, after a need was expressed for a club that would concentrate on organizing local radio listeners, holding meetings and publishing a regular bulletin that would contain listening tips from listeners in this province. People wanted to look in the bulletin and find out what other Ontario listeners were hearing and doing.

DX ONTARIO is written and produced by a staff of volunteers. Contributions to DX ONTARIO columns are most welcome and should be sent to the editor of the particular column. Loggings used in the magazine must be from Ontario, but any other contributions are welcome from outside the province.

The ODXA has two levels of membership. Full membership is available to residents of Ontario, who may contribute to all DX ONTARIO columns, as well as hold staff positions. Associate membership is provided to those living outside of Ontario. Associates may contribute to any section DX ONTARIOsection, except loggings. They may vote in club elections, but may not hold office.

Let us now introduce you to the columns of our magazine.

FROM HQ, as the first section of the magazine, is an introduction of new members, an events calendar, for sale items, publication news, members' letters and profiles, as well as technical subjects, such as receivers and antenna topics. It is compiled by club chairman, Harold Sellers.

In the centre pages, ***DX and SHORTWAVE HOBBY PROGRAMMES*** gives you a guide to where and when to find programmes devoted to our hobby. ***WORLD ENGLISH SURVEY*** is a quick reference guide to an up-to-date selection of English transmissions. ***USA ENGLISH SURVEY*** tells you where and when to find the numerous broadcasters of the United States and ***BBC WORLD SERVICE*** gives you our recommendations for tuning in the BBC. Andy Reid and Ivan Grishin edit these sections.

LISTENING IN, under the editorship of Fred Waterer, presents and discusses the programmes we listen to on shortwave. The presenters of these programmes and the stations they speak from are also topics of this column. ***PROGRAM CALENDAR*** gives advance tips on particular programmes to be aired in the coming month.

WORLD RADIO REPORT's David Clark keeps us informed of the changes made by broadcasters to their operating schedules, such as new transmission times, changes in frequencies or languages used. New stations and news from existing stations are also covered.

TROPICAL LOGGINGS is designated for the ongoing survey of broadcasting stations between 2000 and 5900 kHz, wherein are found the Tropical Broadcast Bands. The contents are reports of stations heard recently by our members and sent in to editor Tom Williamson.

INTERNATIONAL LOGGINGS is where you can find out what Ontario listeners have been hearing on the international shortwave bands, 49 thru 11 meters (5900 to 30000 kHz essentially), during recent weeks. It's a showcase of listening results and also tuning suggestions for others, compiled by Al Gastle.

QSL ALBUM is dedicated to the very popular aspect of the radio hobby of collecting verification cards and letters (commonly known as QSLs). John Fisher presents reports from our members who have received QSLs from shortwave stations.

DOMESTIC BROADCAST keeps you up-to-date on the North American broadcasting scene - mediumwave, FM and television. Besides news, Morris Sorensen presents listings of receptions made by members and reported to the column.

MEDIUMWAVE INTERNATIONAL editor Werner Funkenhauser shows us that the AM broadcast band is not only the home of thousands of U.S. and Canadian stations, but many broadcasts from other countries may also be received here. This column tells you what has been heard in Ontario and gives you reception tips.

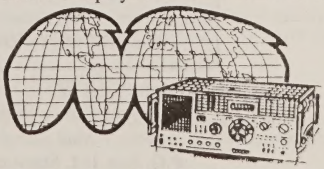
MONITORING SERVICES covers the subject of utility stations; a utility station being a non-broadcast station, which is not directing its transmission to the general public. David Ross lists receptions made by members between 1.6 and 30 MHz of stations using voice, CW, radioteletype and facsimile.

The DX-Change is our telephone answering service, by which you can hear hobby information, club news and DX tips. You can also leave your own news and tips on the tape. John Grimley prepares two tapes of news and information each week. The telephone number is (416)299-ODXA.

DXO on Tape is a recorded version of the DX ONTARIO bulletin for sight-impaired members. Joe Robinson records the monthly magazine onto cassette and these are supplied to members in place of the printed bulletin.

Finally, we have many meetings and events throughout the year. You'll find these listed in the Calendar section of FROM HQ.

This is a brief look at DX ONTARIO and the ODXA. We hope you've found it useful. ❐



Monitoring the World Via Radio Since 1975

Application for Membership in the

ONTARIO DX ASSOCIATION

(incorporated under the laws of Ontario)

P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada

NAME _____ TELEPHONE _____

ADDRESS _____

CITY _____ POSTAL CODE/ZIP _____

The following information is optional.

Occupation _____ Date of Birth _____

May we list your name and address in our Membership Directory? _____

Please list your main interests in the hobby (eg. Mediumwave DX, Tropical Bands, International Shortwave Bands, RTTY, etc.) _____

_____

Years of involvement in the hobby? _____

How did you learn of the ODXA? _____

Other SWL/DX clubs of which you are a member _____

What equipment do you use in the hobby? _____

_____

Where did you purchase your last receiver? _____

Please list any personal computer you use _____

Please provide your callsign if you are a licensed radio amateur _____

I would like information on the Ontario DX Association sent to the following friend(s):

_____

Membership Dues

Please check boxes below.	Canada (C$)	U.S.A. (US$)	Overseas (C$ and US$)
❒ 1 year	$28.75	$26.00	C$41.00/US$34.00
❒ 2 years	$52.00	$47.00	not available
❒ 3 years	$80.00	$72.00	not available
Send DX ONTARIO as ❒ a magazine or ❒ on tape.			

Make cheques and money orders payable to "Ontario DX Association".
Payment may be made in Canadian or U.S. dollars.
Mail completed application to either:

P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8

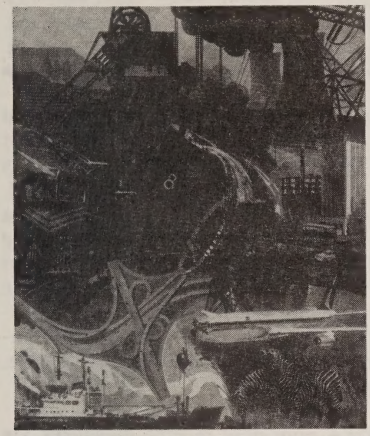
or

Harold Riddell, 2844 S. Union Street, Rochester, N.Y. 14624

5/90

THIS MONTH'S COVER

In April Radio RSA announced that due to financial restraints, they would be ceasing overseas broadcasts at the end of the month. Details in 'World Radio Report'.



EXECUTIVE / EDITORIAL STAFF

BOARD OF DIRECTORS

Stephen Canney , David Clark, John Grimley, Cedric Marshall, Cindy Ellen Morgan

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World Radio Report : *David Clark*
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QSL Album : *John Fisher*

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Promotion Coordinator : *Cindy-Ellen Morgan*
DXO on Tape : *Joe Robinson*
DX-Change : *John Grimley*

VE3ODX Club Amateur Radio Station
The Ontario DX Association holds amateur radio license VE3ODX. Stephen Canney VE3FQ is the station manager.

DX ONTARIO

MONITORING THE WORLD VIA RADIO SINCE 1975

MAY 1990 VOLUME 16 EDITION 178

1975-1990

15 years of service to Ontario SWLs/DXers

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How To Communicate With the ODXA :

You may write to us or you may telephone us as follows:

To discuss your membership or club services, call the
CLUB ANSWERLINE (416) 853-3169

For DX tips and Hobby News, call the
DX-CHANGE (416) 299-ODXA

Via Computer Bulletin Board Systems use PunterNet, Conference #15 (see list occasionally printed in DX ONTARIO).

And Now Via Packet Radio !
Radio amateurs and amateur radio clubs my now communicate with the ODXA via Packet Radio. Messages can be sent through the VE3HPL BBS, on 145.030 MHz, to the ODXA's George Davis VE3OGP.

Harold Sellers
101 Rutledge Avenue
Newmarket, Ontario
L3Y 5T5 CompuServe 73737,3453

SIGN ON

Welcome to this, the May issue of DX ONTARIO. As we welcome Spring to Ontario, we hope you have all been busy making plans for that new antenna or repairing winter damage to an existing one. Give some thought to attending one of the many club events coming up too.

This is a very technical issue, with a large "Technical Talk" section containing many interesting stories and useful tips about interference. As well we have an "Antenna Project" and an article on the Realistic DX-440 receiver.

The voting for the 1990-92 Board of Directors closed on March 31st and here are the results of the election :

Number of ballots received : 187

Canney, Stephen	176	Elected
Coady, Mark	64	
Clark, David	125	Elected
Edwards, William	15	
Fisher, John	78	
Grimley, John	133	Elected
Marshall, Cedric	100	Elected
Morgan, Cindy Ellen	121	Elected
Robinson, Joe	28	
Sorensen, Morris	76	

Congratulations to the new Board, who took office on April 1st. At their first meeting the officers of the corporation will be decided and we'll relay those results to you next month.

In recent weeks there have been some major stories concerning shortwave broadcast stations. Radio Korea and Radio Canada International began a transmitter time swap. On the negative side, however, Radio Prague is presently off the air, except for domestic programming. They have ceased broadcasts in foreign languages while the government sweeps out the cobwebs from the old regime. Then we were hit with the news that Radio RSA may very well cease all overseas broadcasts within a matter of weeks. Recent political events are resulting in big changes on the airwaves too!

Coming up in the near future are several events that you should all take note of. First is the DX Camp to be held at Longford Mills [registration form in last month's issue]. These camps are so much fun and such a great learning experience that everyone should be there! Then in June we have an Open House scheduled in Toronto. Everyone is welcome and bring your friends too. Finally, it looks like we will have a 1990 Convention in August. Some details are inside, but more next month.

The ODXA may now receive messages via Packet Radio. Radio amateurs and amateur radio clubs may send messages through the VE3HPL BBS, on 145.030 MHz, to the ODXA's George Davis VE3OGP. George will then pass them on. We've added a note concerning this new service on page one. Thanks to Steve Canney and George Davis for working out the details.

Does any member do engraving of plastic name plates and badges as a hobby or business? The club would be interested in talking to you about obtaining lapel badges for staff and members.

We are also in need of assistance from a member who has an Apple 2C or 2E computer and could either transfer some files to the club Macintosh via modem or has a Mac themselves that the files could be transferred to. Please contact me at HQ.

continued on page 3

ODXA Stats as of March 31, 1989

Number of Ontario Members	= 779
Reporting Members - April	= 35
% of Total Members	= 4.5%
Reporting Members - 1990	= 71
Number of Associate Members	= 293
Total Membership	= 1072
April DXO's Printed	= 1465
April DXO Mailed	= Mar.26

In last month's "Sign On" I reported that fifty people attended the club's birthday party in February. I meant to say eighty!

On this page you'll find a note about our Local Rep program. If you'd like to be a local representative of the club, please contact headquarters.

Finally, before we close, please note that the June issue of DXO will be published one week earlier than normal, due to our publisher, Ron Hopkins, being on holiday. You'll note earlier deadlines have been announced by the editors.

73 and God Bless,

Harold Sellers

Some guy called a DXer uses it.

Local Representatives

The following ODXA members may be contacted by members in their areas, with inquiries and comments. Additional representatives are required; contact club HQ.

Collingwood	Greg Brindisi	445-1019
Cornwall	Jacques d'Avignon	938-0203
Kawarthas	David Shearman	652-7138
Kingston	John Fisher	389-3070
Kitchener-Waterloo	John Lindsay	634-8480
London	Robert Ross	685-1167
Muskoka	Terry Ferguson	687-2274
Newmarket	Harold Sellers	853-3518
Niagara	Mike Krebs	356-4010
Ottawa	Bernie O'Shea	829-0266
Sudbury	Al Chiswell	855-3798
Thunder Bay	Bill Butuk	623-2136
Toronto	Stephen Canney	222-9658
	John Grimley	299-4281
Toronto - East	Mark Coady	463-6959

Local Representatives Wanted !

It is our goal to have at least one Local Representative in all major municipalities, counties, districts and regions of Ontario. We are still looking for reps in the following areas:

Algoma, Brant, Bruce, Cochrane, Dufferin, Dundas, Durham, Elgin, Essex, Frontenac, Glengarry, Grenville, Grey, Haldimand-Norfolk, Haliburton, Halton, Huron, Kenora, Kent, Lambton, Lanark, Leeds, Lennox & Addington, Manitoulin, Nipissing, Northumberland, Oxford, Parry Sound, Peel, Perth, Prescott, Rainy River, Renfrew, Russell, Timiskaming, Victoria. We are also in need of a new rep for Guelph, since Tom Williamson has moved.

If you live in one of these areas or in an area that is outside of local telephone calling of a current Rep and would like to be a Rep, simply contact club HQ.

What does a Local Representative do? He/she receives a list of any new members in his/her area each month. The Rep's task is to contact the new members and welcome them into the club. If the new member has any questions or comments, we invite these to be passed on to the club. The Rep can answer any questions to the best of his/her ability or refer them to another member, such as an editor.

41 New Members

ONTARIO DX ASSOCIATION

Welcome to the following new ODXA members.

Allso, George : 4 Azalea Court, Weston M9M 1V1. (416)745-9189. George is an electrical technician. He monitors the international shortwave broadcast bands on a Philips receiver. He has been listening for 45 years. (via newspaper article)

Asselin, Lloyd : 3187 Ryndam Court, Mississauga L4Y 3E2. (416)277-8000. Lloyd is retired and he says he's a beginner in the shortwave hobby.

Bell, Robert : 89 Ridgehill Dr., Toronto M6C 2J7. (416)783-3288. Robert listens on a Panasonic RF-2200, which he uses to monitor shortwave broadcasts. He's a newcomer to the hobby. (via Stephen Canney)

Boettcher, Christian : RR #2, Brussels N0G 1H0. (519)887-9673. Christian is a farmer and he has started to listen to shortwave. His receiver is a Grundig Satellit 500. (via a friend)

Branch, F. Walter : 46 Applewood Cres., Guelph N1H 6B5. (519)824-8605. Walter is VE3BGD and he monitors the shortwave broadcast and RTTY frequencies on his Kenwood TS-440S and a Realistic DX-400. He has been in this hobby for forty years. (via flea markets)

Butterfield, Mike : 2019 Bellair Lane, Mound, MN 55364-1085. (612)472-7981. Mike works for the U.S. Post Office. He has been DXing for 19 years and presently monitors Coast Guard communications, mediumwave DX and shortwave broadcasts. He has a Japan Radio NRD-525 and uses an Icom IC-730 as radio amateur KB0TO. (via SWL Digest)

Chevalier, Corinne : 528 Ridelle Ave., Toronto M6B 1K8. (416)789-1641. Corinne is a medical secretary. She has picked up a Sony ICF-2010 and is a new shortwave listener. She likes to follow baseball games on US stations. (via CFRB Ed Needham Show)

Fisher, Ken : 31 Uplands Dr., London N5X 3V6. (519)660-1852. Ken has been listening to shortwave for two years. He is retired and says he monitors all bands on his Panasonic RF-4900. (as a Christmas gift)

Fleischer, Michael : 758 Querbes Ave., Apt. B, Outremont, Québec H2V 3W9. (514)276-9517. Michael is a Unit Coordinator at Montreal General Hospital. He has been a shortwave listener for 27 years and monitors the longwave, mediumwave, shortwave and VHF/UHF bands. His receiver is a Sony ICF-2010. (via Hobbytroniques)

Frey, Dean : 4 Richards Close, Red Deer, Alberta T4P 3L2.

Gears, Gary W. : 659 W. Arlington Place, Chicago, IL 60614. (312)248-9048.

Gosnell, Terry : P.O. Box 385, Mt. Albert L0G 1M0. (416)473-1345. Terry works in sales and he is a new shortwave listener. He has bought a Satellit 500 by Grundig. (via Hobby Show and Atlantic Ham Radio)

Haddow, Douglas M. : 205 Bayview Fairways Dr., Thornhill L3T 2Z1. (416)764-6478. Douglas has been in the hobby for two years. He is a retired high school teacher and is using a Sony ICF-2010, a Sony Airband-7 and several scanners. (via a DX program)

Holford, David : Rae Road RR #1, Cornwall K6H 5R5. (613)931-2185. David is interested in utility DX and he has been monitoring for over 40 years. He has a variety of equipment. David is amateur radio operator VE3HLU. (via a friend)

Holyoke, Doug : 357 Botsford St., Newmarket L3Y 1S7. (416)895-8139. Doug is retired and he has been tuning the shortwave and mediumwave broadcast bands for three years. He uses a Sony ICF-7700 receiver. (via Hobby Show)

Housego, James : RR #1, Ashburn L0B 1A0. (416)655-4003. James has been monitoring the international and Tropical shortwave broadcast bands since last fall. He has a Kenwood R-5000 receiver. James is retired. (via WRTH)

Howard, Glen : 275 Manse Rd., #40, Scarborough M1E 4V1. (416)287-1130. Glen has been shortwave listening for a year, with a particular interest in South African stations. He uses a Sony ICF-2010. (via CKO)

Irwin, Frank : 1401 Prince of Wales Dr., Apt.1002, Ottawa K2C 3J8. (613)225-7995. Frank is a former member, rejoining us after an absence. He is retired and uses Panasonic RF-2800 and 3100 receivers to monitor the international shortwave bands.

Klein, George : 53 Highgrove Cres., Richmond Hill L4C 7W9. (416)737-4612. George is self-employed and he has been a shortwave broadcast listener for twenty years. He uses a Kenwood R-5000 and a Panasonic RF-B60. (via Atlantic Ham Radio)

Kreider, Aaron : 4090 West 31st Ave., Vancouver, BC V6S 1Y6. (604)228-1217. Aaron is a student who has been listening to the international shortwave broadcast bands for a year. He has a Sangean ATS-803A receiver. (via Dubberley's on Davie)

Larkin, James M. : P.O. Box 269, Havelock K0L 1Z0. (705)778-3315. James is retired and he has been listening to shortwave broadcasts for 35 years. His receiver is a Global NR-82F1. (via Star Week article)

Lenhart, Steve : 1401 Potomac Ave., Hagerstown, MD 21740. (301)791-3533. Steve is employed as a manager and he has ben monitoring shortwave for 25 years. With a Sony ICF-2010 and a Yaesu FRG-7700 he likes to follow the shortwave broadcasters and aeronautical communications. (via Swiss Radio International)

Lichtman, Jack : 109 Erskine Ave., Apt.3, Toronto M4P 1Y5. (416)487-8142.

Lougheed, Kevin : 101 Timberline Trail, Aurora L4G 6A1. (416)727-1863. Kevin works in the communications business, supplying police forces. He uses a Realistic DX-440 to listen to international broadcasters. (via Terry Gosnell)

Marsden, Frank : 31 Willingdon Blvd., Toronto M8X 2H3. (416)239-7096. Frank listens on a Grundig Satellit 500. He is retired and has just recently taken up the shortwave hobby. (via Atlantic Ham Radio)

Miller, Lewis : 120 Wembley Road, Toronto M6C 2G6. (416)781-4102.

Moore, Don : 6 Park Vista Dr., Apt. 305, Toronto M4B 1A2. (416)755-5982. Don is a newcomer to listening to international broadcasts on a Sangean ATS-803A. He is a teacher. (via John Leonardelli and Hobby Show)

Mueller, Joe : 89 Westwood Rd., Apt. 106, Guelph N1H 7J6. Joe is VE3IJL. He's a newcomer to SWLing, tuning in to the major shortwave broadcasters, but he is interested in getting into weather facsimile and packet radio. He uses a Sony ICF-2010. (via Atlantic Ham Radio)

Preising, Randy : 265 Enfield Pl., #N1606, Mississauga L5B 3Y7. (416)270-7844. Randy is a graphic designer who has been DXing for seven years. His interest is in the international shortwave broadcast bands, for which he uses a Grundig Satellit 500, a Sony ICF-2002 and Eavesdropper and Sony AN-1 antennas. Randy is a former ODXA member. (via retailer)

Punnett, Anthony : 20 Forest Manor Rd., Suite 1401, North York M2J 1M2. (via HCJB)

Rahamut, Patrick : 66 Lawrence Ave. East, Toronto M4N 1S4. (416)483-7458. Patrick is a telephone technician and he has been DXing the medium and short wave bands on and off for 15 years. He uses a Yaesu FRG-7 receiver. (via Hobby Show)

Savage, James : 320 MacLaren St., Apt 704, Ottawa K2P 0M6. (613)563-2364. James listens on a Panasonic RF-2800 and a Sharp FV-610GB. He first started listening in 1972. James works as a communications policy analyst. (via Stephen Canney)

Schmidt, M.K. : 5334 Yonge St., Apt. 1741, North York M2N 6M2. (416)221-9301. Mr. Schmidt is an electrician and he has been a shortwave listener for over 50 years. His major interest is monitoring Christian broadcasters. His receivers include a Grundig Satellit 500, a Trio 9R-59 and a Hitachi 3D75. (via Atlantic Ham Radio)

Stine, R. Eric : 74 Curlew Drive, Apt. 206, Don Mills M3H 2R3. (416)445-1434. Eric is a former member, who is rejoining. He is an actor, musician and computer operator. He

has been an SWL for thirty years and uses Sony ICF-2010 and 2002 receivers, as well as several scanners.

Urae, Peter : P.O. Box 245, Station A, Kelowna, BC V1Y 7N5. (604)862-3412. Peter has been shortwave listening for ten years. He monitors shortwave broadcasts, utilities and mediumwave on a Supertech SR-16H all-band receiver. Peter is a landscaper.(via Peter Krochmaluk)

Valleé, Pierre : 4038 Taffey Cres., Mississauga L5L 2A7. (416)828-8776. Pierre has taken up the shortwave listening hobby during recent weeks and he is using a Realistic DX-440 receiver. Pierre works as an office manger. (via Atlantic Ham Radio)

Wilner, Rose : 515 Chaplin Cres., #606, Toronto M5N 2N1. (416)789-3128. Rose is retired and likes to listen to the international shortwave bands. (via StarWeek)

Yakubovsky, Arthur : 25 Cedarcroft Blvd., Apt. 1204, Willowdale M2R 2Z3. (416)665-3171. Arthur is a sales manager and he has recently taken up the shortwave listening hobby, using a Sangean SG-792 radio. (via Hobby Show and radio program)

We also welcome **Alan Bird, Peter Dougherty and Michael Moore**.

Changes of Addresses :
Tim Brown, 131 Poplar Crescent, Aurora L4G 3M4
Gary M. Cooper, 30 Bradmon Dr., Apt.303, St. Catharines L2M 6T7. (416)935-1464
Tim Draimin, 12 Roslyn Ave., Ottawa K1S 4W1
Richard Grammick, 32 Longbranch Ave., Etobicoke M8W 3H9
Fred Kohlbrenner, 2641 So. Shields St., Philadelphia, PA 19142
John Leonardelli, 282 Gells Road, Richmond Hill L4C 3A4
Luis Alberto Rivero, 2004 Sheppard Ave.W., TH 514, Downsview M3N 1A1

MEMBERSHIP DIRECTORY AVAILABLE - FREE!

We have a directory, current as of April, of our members and their addresses and telephone numbers. A copy is free to any ODXA member by writing to club HQ.

Looking Back
...Celebrating our 15th Anniversary

In May of 1975 the ODXA had a membership of 38 and a membership secretary was appointed. Bev Sesink of London filled the post. Meetings of members took place in Thunder Bay and Toronto. Bill Leal and John Watson were new members and they are members today, as well!

The solar cycle was passing its low point and the bulletin contained four pages of shortwave loggings, plus about as many mediumwave catches. Membership dues were $6.00 per year.

MEMBER PROFILE

Jerry Klinck, 43 Lein Road, West Seneca, NY 14224, is another new member who tells us a bit about himself : "I'm 46 years old, divorced, live in my own home and am a maintenance laborer for the town of West Seneca. I began DXing at age 17 while living in Buffalo. I started with a Knight-Kit 'Span-Master', which I assembled. I soon gradulated to a Hallicrafters S-107, then to a Hammarlund HQ-100 and finally, an HQ-180, which I am sorry now that I sold. O DXed for seven years, during which time I had the pleasure of knowing the late C.M. Stanbury II, who taught me much. I also co-ran the ASWLC for a time, during the early sixties, so I know now important member participation is. In 1967 marriage, work, a new home, volunteer firemanship, etc., pushed DXing out of my life, although many times over the past years I've wanted to get back into it. Finally, last February, I took the big step and am having a ball!

"My current stats are 154 countries heard and 126 countries verified. I plan on being a contributing member and hope to meet and make some new friends in the hobby. Anyone who is in the Buffalo area is more than welcome to visit the 'shack' - just let me know." ◆

Calendar

Coming Highlights -

Dr. Charles Bolton speaks at Toronto Meeting.

ODXA Open House announced.

May 5 : Smiths Falls Amateur Radio Flea Market, Lombardy Agricultural Hall, five miles south of Smiths Falls on Hwy 15. Opens at 9:00 am. The ODXA will be exhibiting, thanks to Marshall Cubitt and friends.

May 7 : Skywide Amateur Radio Club Flea Market, Central United Church, 1 King Street, Weston (corner Weston Road and King Street), 6 p.m. (yes p.m.), admission $3.00.

May 9 : Toronto Area ODXA Meeting 7:30-10:00 pm, Ontario Science Centre, Theatre B. $3.00 admission.

7 pm Newcomers' Session - A question and answer time for those new to the hobby and to the ODXA.

7:30 pm Special Guest Dr. Charles Bolton FRSC, Professor and Associate Director of the David Dunlop Observatory in Richmond Hill, Ontario. His talk is entitled, "Our Restless Sun". He will discuss what is known about magnetic activity on the Sun and which is responsible for the 11-year sunspot cycle. The sunspot cycle is near its peak of activity at present. Slides and a short movie will be shown to give examples of the type of activity that occurs and show how these events can produce spectacular effects on the earth.

Dr. Bolton was educated at the University of Illinois and the University of Michigan. He has been on the staff of the University of Toronto since 1979. He is a stellar astronomer with special interests in variable and binary stars and stellar atmospheres. He was "co-discover" of the first black hole, Cygnus X-1.

Mark your calendars for this one. Refreshments served. Club supplies will also be sold.

May 23 : London Meeting of the ODXA. At London Police HQ, 601 Dundas Street, 7:15 pm.Dan Greenall will speak about FM and TV DXing. Contact Rob Ross 685-1167.

June 2 : ODXA Open House. See sidebar for complete details.

An Invitation to the ODXA Open House

June 2 is the date for an ODXA Open House, from 12 noon to 5 pm at the Todmorden Mills Museum, 67 Pottery Road, Toronto.

The museum's country-like setting will be ideal for ODXA members to demonstrate the shortwave hobby to the general public.

We will have a wide range of receivers in operation and a club booth with a full complement of club supplies. There will be refreshments available.

Todmorden Mills Museum has the oldest complex of historic buildings in the Metro Toronto region. There is a special exhibit to see, as you wander around the site, called "Discovering the Wild Don". This has pictures and artifacts from the Don River Valley. There will be hourly tours of the historic buildings with costumed guides.

Weather permitting, we plan to have an outdoor display. If confined to the indoors we will have our displays in the Papermill, which dates back to 1795.

Bring family and friends and join us at the Todmorden Mills Museum.

Directions on getting to the museum :
1) 67 Pottery Road, between Bayview and Broadview
2) via the Don Valley Parkway, take the Bloor/Bayview Avenue exit; turn right onto Bayview North; proceed until you reach the first stop lights (this is Pottery Road); turn right and follow Pottery Road under the Don Valley Parkway until you reach the first brick road east of the Don Valley.

Activity Report

◆ Sudbury Chapter Holds First Meeting

Four ODXA members and friends gathered at the home of Al Chiswell on March 10th for an afternoon of socializing and discussing the hobby. Getting to know each other were Fred Kirk, Allen McGillvray, Bill Hannon and Reg Pelltier, as well as Al Chiswell. A future meeting with be scheduled in the coming months.

◆ 3rd Meeting of the London Chapter

The third meeting of the London chapter of the ODXA was held on Tuesday, March 13th. Members present were Paul Snider, James Davidson, Harold Sellers, Dan Greenall, James Hartford, Douglas Cann, McLay Miller, Dan O'Meara, Jerry Coatsworth and Robert Ross.

We were pleased to have several first-time attendees, including Harold Sellers, James Davidson, Douglas Cann and James Hartford.

The program was 'QSL Techniques'. After the presentation members were able to browse through a large assortment of QSLs, including some of James Hartford's early 1960's QSLs, the highlight of which was Radio Caroline on 1520 kHz mediumwave.

A 'ragchew' was held at the end of the meeting and members were taken to the Police Communications Room for a brief tour of the facilities before adjourning.

The 4th meeting was announced for Wednesday, May 23, 1990. (Robert Ross)

◆ Gravenhurst DXpedition

The April 6-8 Gravenhurst DXpedition was attended by a record number of ODXers. Terry Ferguson's motel was the venue as approximately eighteen ODXA members gathered for a weekend of DXing, swapping tales, trying out various receivers (and even selling a few!). Many thanks to Terry and his family for once again being such great hosts.

1990 ODXA Convention

A bid has been received to hold a one-day convention on Saturday, August 25, 1990. The expected location will be the east end of Toronto, accessible from Highway 401.

More details will be presented next month, pending acceptance of the bid by the club Board of Directors.

Mark your calendar now!

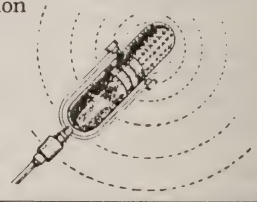
CQ Ontario Amateurs.....This is VE3ODX

To assist those members seeking information on the province's amateur radio clubs, I ask the Ontario amateurs in the ODXA to supply us with current information on the amateur clubs they belong to.

We will need : address, phone numbers, contact people, meeting locations and schedules, course information, etc. This information will allow us to update the list we have a t club headquarters and which was compiled in 1987.

I appreciate you helping out. Send this material to our club address.
Also, I've been asked many times about starting an ODXA ham net. It's a great idea but we need people to make it work. I tried this twice in the past, but only received support from a handful of hams. The 40 meter band is definitely the best band for good province-wide coverage. I'm open to suggestions.

73's Stephen Canney VE3FQ/VE3ODX
Club Station



Keep DXO On Top Fund

OUR GOAL–$10.000.00

$9,000.00

$8,000.00

$7,000.00

$6,000.00

$5,000.00

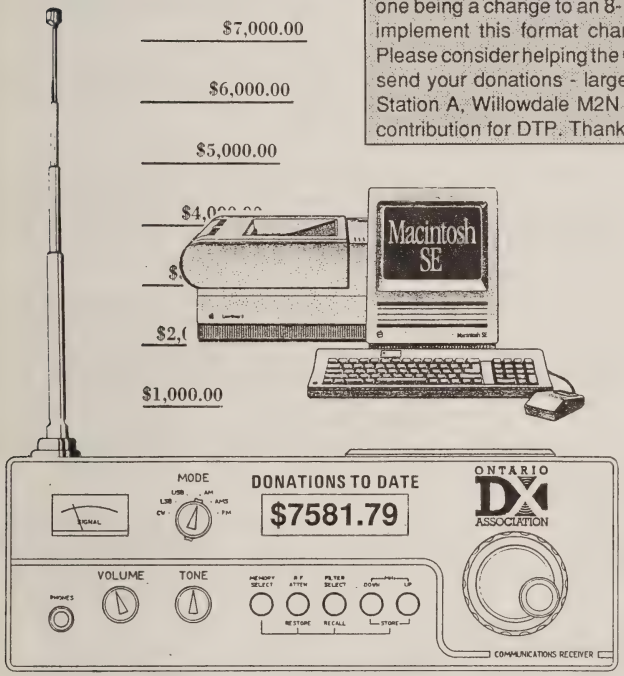
$4,000.00

$3,000.00

$2,000.00

$1,000.00

We need your help. The Ontario DX Association, after several months' of fund-raising, has recently purchased an Apple Macintosh-based Desktop Publishing System. Use of DTP will bring you an even better product each month and will keep the ODXA on top technologically. DTP will also help us make a number of improvements to the magazine, one being a change to an 8-1/2x11 size. We hope to implement this format change in the near future. Please consider helping the ODXA to stay on top and send your donations - large or small - to Box 161, Station A, Willowdale M2N 5S8. Please mark your contribution for DTP. Thanks.



New Contributors

John Boocock
Jim Borack
Robert Droine
J. Gatkowski
Ian Low
Daniel O'Meara
Bernard Podhy
Susan Pugh
Harold Riddell
Joseph Said
Hugh Schatz
Robert Senkmajer
Ted Starr
Gerry Ten-Westeneind
E. Vassallo
Ray Williamson

SPECIAL ANNOUNCEMENT

VE3ODX Special Operations for ODXA 15th Anniversary

The Ontario DX Association's amateur radio station, VE3ODX, will be on the air the 15th of every month on the 15 meter band, between 21.150 and 21.250 MHz. Additional frequency ranges include 28.150 to 28.350, 14.100 to 14.200 and 7.050 to 7.100 MHz.

Station manager Stephen Canney VE3FQ will also periodiclly check into the Trans Provincial Net on 7.055 MHz.

Watch for these special operations, and others, and earn an attractive, commemorative certificate attesting your monitoring of or contact with VE3ODX. These special 15th Anniversary Certificates are only available between February 1990 and February 1991.

Reports may be sent to the Ontario DX Association or Stephen Canney VE3FQ.

For Sale

DX ONTARIO # 1 - The club has printed a small number of our first bulletin, issued in February 1975. You can get a copy for $3.00 postpaid from club HQ.

World Radio TV Handbooks for sale : 1982, 83, 84, 85, 86, 87, 88, 89. $5.00 per copy plus $1 shipping. Order from club HQ.

The ODXA has a Gestetner mimeograph machine (used to publish early years of DXO) which we will donate to a charitable or non-profit organization. If you are interested, contact Harold Sellers at club HQ.

(1) Kenwood TS-440SAT (with built-in antenna tuner), still under warranty and in showroom condition. $1650. (2)Datong morse tutor D-70, $100. (3) Original 'bug' CW key, serial #6000, chromed, made by Dow Key Co., Winnipeg, $50. Dwayne Tilleman, Box 2511, Medicine Hat, Alberta or call (403)526-4916 before 9 am.

Realistic Pro-30 scanner, 16 channels, extended warranty to Nov. '92, box, manual. $200 or best offer. Rick (416)523-5990.

(1) Commodore Amiga 500 computer with 1 meg RAM, 1084 colour monitor, mouse, software, manuals, boxes. $1100 or best offer. (2) Vintage tube oscilloscope, Precision ES500A, for best offer. Marc (416)466-0561 (leave message if not at home)

Alpha Delta DX-DD (Delta Dipole) 80-40 meters, shortened dipole, 82 ft total length. Features : stainless steel hardware, direct coax connection, no traps and no power limitations. Can be installed as an inverted V, dipole or sloping dipole. $70 or best offer. Stephen Canney (416)22-9658.

Icom IC-R71A, with manual and box, Shortwave Horizons modifications with schematic. Comes with Yaesu FRT-7700 tuner. Asking $1100 or best offer. Joe Kot, Mississauga (416)274-8256 after 6 pm, (416)927-5077 work.

Kenwood R-5000 communications receiver, 6 months old, in mint condition with original packing and manuals. Equipped with YK-88A1 (AM) and TK-88SN (SSB) filters, IF-232C interface and IC10 kit, with TRS Consultants Mar/90 English Language Schedule and R-5000 control programs for IBM compatibles. $1250. James Housego, RR #1, Ashburn, Ontario L0B 1A0, (416)655-4003.

(1) Grundig Satellit 500 with charger nicads and manual, box. 1 year old. $550 negotiable. Terry Ferguson, Gravenhurst (705)687-2274.

Yaesu FRG-7700 communications receiver from the estate of the late William O'Donnell. $500. Contact Harold Sellers at club HQ (416)853-3169.

Yaesu 290R2 2-metre all-mode transceiver, CW/FM/SSB. Mint condition, includes rubber duck, ten C-size nicads in battery case for portable operation, wall charger, operating manual, technical manual, TT mic, speaker mic, case. $525 plus UPS. Monty Hart VE3TA, 55 Highland Ave., Barrie. (705)737-2252.

National Company AM tube-set, can be rack mounted. At present in a cabinet. Excellent condition. Cash or trade. Antonio Auriemma, 58-1621 Queen StW., Toronto M6R 1B1, (416)535-3922.

WANTED -

WRTH 1980 and 1981. Also QST magazine issues Nov. 1981 and July 1988. J. Bill Such, 1425 Pacific Ave., Natrona Heights, PA 15065-2001, telephone (412)224-9413 (best time 0000-0600 UTC).

Inexpensive shortwave radio for a novice listener. Contact Raymond Yawson, Box 1428, Station A, Hamilton L8N 4C2. (416)546-0633.

Measurement table/by frequency for Cushcraft 2m Ringo Ranger AR-2. Have assembled antenna from flea market, but have no instructions to change frequency. Mike Dunn, Box 64, RR# 2, Head of Chezzetcook, NS B0J 1N0.

For Sale continued -

For VE3ODX, ODXA's Amateur Radio Station - Anyone have a TV rotator for sale? A TV rotator is all we really need to turn our donated 3-element beam. Call Steve Canney VE3FQ/VE3ODX (416)222-9658.

McKay Dymek AM-5, AM tuner with or without DA5 antenna. Also wanted Liniplex F1. They must be in excellent condition. Antonio Auriemma (see previous page). ◆

Collector's Corner

John Grimley writes in to et us know that he collects radio-related coffee mugs. Everything from the BBC "Radio 648" mug to one with a characture of a scatter-brain with headphones and that says "Air Traffic Controllers Live on Caffeine"! Anyone with good mug (at a good price) should call John on the DX-Change or write to him at the club address.

Computer Bulletin Board Update

The following list of Bulletin Board Systems support the Radio Communications conference of the PunterNet BBS network. Jacques d'Avignon is the SWL sysop on the net and many shortwave items are featured on the net. We invite ODXA members to call up any of these BBS's and access this conference (#15) via the listed node. Feedback via the Net or by mail to the ODXA is welcome.

Location	BBS Name	Node	Telephone #	Baud(max.)
Richmond, BC	[A-B-C] Connection	107	(604)272-4644	9600
Richmond, BC	The Abascus Conference Network	45	(604)272-4311	2400
Ontario, CA	Diamond Bar BBS	18	(714)923-1031	9600
Ontario, CA	Teleterm Amiga West	117	(714)984-9580	9600
Saint John, NB	Foggy Town	95	(506)847-9765	2400
Cambridge, ONT	Tri-City BBS	118	(519)621-0164	2400
Chilliwack, BC	Rainbow BBS	122	(604)792-4256	2400
Cornwall, ONT	DataCom	16	(613)938-5000	9600
Pickering, ONT	The House of Comments	84	(416)831-6102	2400
Thornhill, ONT	K.E.B. System IV	111	(416)266-4444	2400
Toronto, ONT	Artificial Horizons	115	(416)462-9779	2400
Toronto, ONT	K.E.B. System III	109	(416)444-6406	2400

Postmark Ontario

Thomas Blest of **Buffalo, New York**, writes in response to Wes Milczyn's letter in the January 'Postmark Ontario'.

"As an employee of the U.S. Postal Service here in Buffalo, I can answer some of the mysteries in his mail from Canada Post!

"The small letter combinations A3 and D4 are printed there by mail sorting equipment to check employee accuracy. Many letters do come open during processing, especially those from 3rd world countries. I guess the paper and glue they use in their envelopes are not as good as they are in North America.

Ronald Spalding, Sudbury, says : "Would appreciate one on one radio training set-up. Interested in radio ham ticket, but am getting up in years and not too mobile now." - Perhaps some of the radio amateurs in the ODXA could give Ron some advice on what avenue he could follow to obtain his ticket.

George Raymond Kosch of **Marbelhead, Ohio**, kindly sent us a big world map showing world time zones. Thanks very much for the gift, Mr. Kosch, which we are using as a prize at one of our club activities.

Robin Dunbar, Ethel, Ontario has identified a station that he has been hearing on 162.475 MHz. He reports : "They have finally identified themselves as XLT of Goderich, Ontario. It is a joint service of Weather Canada and the Department of Search and Rescue. Trial transmissions began on March 15 and broadcasts are to begin on April 1."

In another letter, Robin wrote : "Last year I gave a talk/ demonstration on shortwave to a group of sixteen senior school students at Elma Township Elementary School in Newry, Perth County. In an afternoon session, I talked about radio bands, AM, FM, propagation, local and UTC times, and how short wave can travel long distances. Since children like to do rather than sit, I brought along my Yaesu FRG-8800, a Panasonic RF-799, a JVC cassette player which had two shortwave bands, and an old Gratz tube-radio, which also had shortwave bands. The groups rotated from radio to radio and with the aid of the WRTH and DX ONTARIO, they tried to find and identify stations. The afternoon is not the best time, plus a school building reduces reception. However, they did log some North American stations and wrote reception reports.

"I have again been asked to participate in the school's program and I hope to do so. I would like to use the ODXA brochure as a handout . If there is any other material which you could suggest I would appreciate it and suggestions as well."

For events such as these, the club can make available quantities of DX ONTARIO, an introductory brochure and some station schedules that we have on hand.

Richard McVicar is now living in **San José**, Costa Rica, where he and his wife Lisa are studying Spanish in preparation for service at HCJB Ecuador. Rich writes "Faro del Caribe is only a few blocks from the school, and of course it's on my route to school. My regular contacts there are Isaac Gonzalez E. (an announcer there now for 16 years) and Hugo Worsfold (not sure about the spelling). Hugo is an LAM missionary from Vancouver and he has been with TIFC for many years. Any English voice you'd hear on TIFC is Hugo's, but soon (if management goes along with it), you might hear mine too. Hugo wants a fresh voice and is inquiring about my helping out.

"I've made a complete AM and FM survey and there are about 25 AM stations and 35 FM! The dial is packed solid and you can't pick up any AM stations farther than Cartago. On shortwave, it's neat to hear old favourites like Radio Reloj pounding in without fading."

Rich also says that he was fortunate enough to meet ex-HCJB DX Partyline hosts Clayton and Helen Howard when he was in Miami. In April Ken and Polly MacHarg (Ken is also an ODXA member) are expected to arrive in San José as they also head for HCJB.

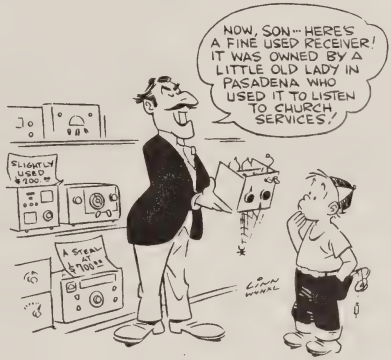
Thanks for the news Rich and we'll look forward to hearing you and Ken on the air. For anyone who would like to write to Rich, his address is c/o I.L.E., Apto. 100, 2350 San Francisco de dos Rios, San José, Costa Rica.

Jacques d'Avignon, 459 Leitch Dr., **Cornwall** K6H 5P7, who will soon be presenting some reviews of DX hobby software in DX ONTARIO, asks all members "What do you consider good software? Your comments on software you like and use would be most useful." ◆

Technical Talk

● **Michael Rochon**, 323 Fulton Avenue, Fredericton, NB E3A 2B9 is looking for someone to service a Marconi receiver for him. It is a circa 1932 model number 228, battery-operated, AM and shortwave. Michael needs the following tubes : 1A7GT/G, 1Q5GT, 1N6T/G and 1H5GT/G. - Perhaps some of our members know of a repair shop, radio amateur or vintage radio society in New Brunswick that could help Michael. We don't know of any firms that would be able to repair the radio and ship it back to you, Michael, but hopefully a helpful member will step forward.

● **Robin Dunbar**, RR 1, Ethel, Ontario N0G 1T0, asks : "Could someone recommend a cassette recorder which could be used to record from my Yaesu FRG-8800? Does it have to be voice-activated to record when the timer on the radio is used or is a timer needed for the cassette player? I would like to record when I am away."


NOW, SON -- HERE'S A FINE USED RECEIVER! IT WAS OWNED BY A LITTLE OLD LADY IN PASADENA WHO USED IT TO LISTEN TO CHURCH SERVICES!
SLIGHTLY USED $100
A STEAL AT $100!

● **Brad Lawrance** of Prince Albert, Ontario, writes : "I would like to update you on the short wave radio interference that I was experiencing, having moved into my new home, and to thank you for your interest when I advised the ODXA of the problem.

"As you will recall, immediately after moving to this small community near Port Perry, I noticed severe interference on both my Panasonic RF-B65 and RF-2200. This was particularly disappointing, as I had just moved from Scarborough and was looking forward to some great short wave listening 'in the clear'. It was soon evident that the cause was hydro-related.

"Upon contacting Ontario Hydro, and through word-of-mouth, I learned that a couple of my neighbours had also been complaining about low-voltage problems. Hydro promised to check out the problem, and when I contacted them a week or so thereafter, they informed me that a new transformer was to be installed.

"Meanwhile, I had contacted the Department of Communications in Toronto, to determine my next course of action, should Ontario Hydro not resolve the interference problem.

"I am happy to report that Hydro did indeed replace the transformer, very quickly, and SW reception has been crystal clear since.

"It was gratifying to receive such support from the ODXA, in the form of your telephone call and advice, to enjoy courteous and prompt service from Ontario Hydro, and to find a receptive ear and interest in my situation from Mr. Mike Lang at the Department of Communications in Toronto. I hope that other SWL's will be as fortunate in similar circumstances."

Thanks for that letter, Brad. We appreciate learning of the outcome and we would also invite other members to relate their experiences with interference problems and/or solutions with us, so we can all learn from them.

● **Mark Coady**, Toronto, has some further comments on the Sony ICF-2010 battery situation : "I've got my ICF-2010 back in circulation. When it died I tried changing the two AA memory batteries, but it was to no avail. Turns out that it was a combination of exhausted batteries and battery holder that would not pass power on to the memory unit. It took Sony a while to figure it out. Actually, they gave up and I figured it out.

"One Sony technician advised keeping the three D-cells in the radio - even if you don't

ever use the receiver on battery power. Just keep checking them periodically to make sure they don't leak. This is in direct contrast to the owner's manual, but Sony has realized that the two AA memory batteries can easily pop out - causing the memories to erase - without the D-cells wedging them into place. It's also possible, according to Sony, that the memory batteries popping out all the time could have led to the failure of the battery holder."

Thanks for that info, Mark, I'm sure other 2010 owners read it with great interest.

● **Mike Dunn**, Nova Scotia, has sent us several letters dealing with the subject of noise and interference. His first report concerns automatic light controls.

"The problem : A neighbour 800 feet away installed an automatic light control photocell in their front-door light. The kind that screws into the lightbulb socket and then the lightbulb screws into it. Usually $10 to $12, such as Canadian Tire 52-8804-6 at $9.95 or Radio Shack 61-2776 at $12.95. The one in question has XP-150 marked on it and must be mass-marketed, as I saw it in several shops around town.

"When it comes on, mediumwave and longwave are in dire shape; crud level about knee high, especially from 900 kHz and down.

"The cure : First identify the item. The type that comes on gradually (like a light dimmer) as you cover the photocell. These are the problem types. They should be replaced with an indirect-operating type. The photocell operates a switching diode and can be identified by the one to two minute delay in operating after you cover the photocell. The cost is usually $17 to $20 and it must be wired in. It can be mounted under the light fixture. Simple to follow instructions came with mine, from a wholesale electric supplier at a price of $15.65.

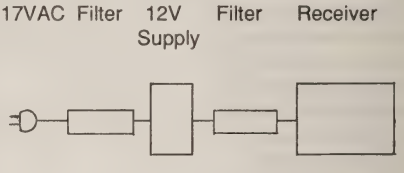
"The result : 100% noise-free reception, a complete cure, even standing on a ladder under the light fixture with a Walkman tuned to AM.

"If you have a suspicious noise that comes on at dusk and goes off at dawn, get out your portable radio on mediumwave and start walking the streets. That's how I quickly located mine."

Mike writes in his second letter : "While hunting for line noise generated by a cheap automatic photo-electric cell light controller, I ran across a temporary cure to my problem. I assume this would apply to other electric devices that cause interference conducted through the AC line cord (such as light dimmers, fish tank heaters, solid-state furnace controllers).

"My noise problem was primarily found on long and medium waves. By putting the receiver on a 12 volt DC power supply, I eliminated the noise by about 50%. By putting an AC line filter ahead of the 12 VDC power supply and a filter in the 12 VDC line cord, the noise was reduced by 90%."

Referring to the sketch provided by Mike, he suggests using an AC side filter such as the Radio Shack #273-103. On the DC side, try Radio Shack's #270-051 or 273-103 or a Canadian Tire 350025-0.



Mike follows up in a later letter with : "As per a previous note to 'Tech Talk', I have been running my NRD-525 on 12 volts DC, via an Astron power supply and a filter network, to achieve some line-noise reduction. After reviewing Shaun Merrigan's comments in the January DXO 'Tech Talk', I tucked a 12 V car battery under the desk and gave it a try.

"Wish I had put forth the effort years ago. Even though I'm in a rural area with few close neighbours, they still have their share of crud-causing devices!

"I had : some birdies from my own in-house TV's (on BCB); QRM from neighbour's light dimmer; noise level from salt on insulators on electric service lines (I have a sea-side location); and flourescent light noise (again on BCB).

"All eliminated! By running the receiver on a 12 volt battery. Once I removed the receiver from the dirty 117 V AC, most or all of the crud dissolves away. Some line insulator noise remains, but only on a Beverage antenna aimed towards the power lines, but now at a much reduced and manageable level, and it's only present on longwave (is a problem up to 4 MHz on 117 V AC).

"Was it worth the effort? You bet!"

So there we have yet another solution to noise and interference problems. And again, we'd welcome feedback from other members.

● **Grove Enterprises** has introduced three new versions of popular accessories. The TUN4 Minituner Plus combines a 100 kHz to 30 MHz antenna tuner and a low-noise, high-gain amplifier. The price i US$99. The PRE4 Scanner Booster i an adjustable pre-amplifier for scanners; US$69. And the FTR4 Scanner Filter reduces interference from shortwave signals and passes 30-1000 MHz signals. Price is US$49. Write to Grove Enterprises, P.O. Box 98, Brasstown, NC 28902.

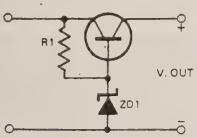
● **Universal Radio** has released a brand new catalog, this time combining their shortwave, ham and scanner catalogs into a single issue. The 88-page issue is available for US$1 from Universal Radio, 1280 Aida Drive, Reynoldsburg, OH 43068. Ask for catalog #90-03.

Note : The club would appreciate receiving a copy of any responses to these questions, so we can share them with all members. ◆

In response to the request from Tone Careless for a circuit that would provide a variety of DC voltages from a car battery supply, we have several offerings from club members.

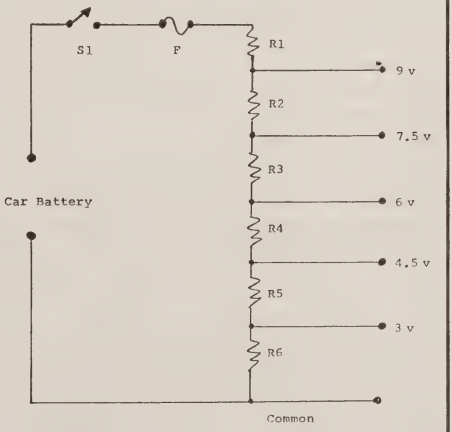
Edward Misevics suggests the use of Radio Shack's Car DC Adapter, catalog #270-1560 (page 151 of the 1990 Canadian catalog). It will plug into the cigarette lighter and supply 3, 4.5, 6, 7.5 and 9 volts DC.

Ed also supplies the following circuit, should Tone or anyone else want to build their own circuit.



Parts List:
2N3055 transistor (2N3772 is an alternate)
R1 for 9 volts = 180 ohms; for 7.5 volts = 270 ohms; for 6 volts = 330 ohms
ZD1 zener diode for 9 volts = 1N4697, 1N758, 1N961, or 1N5240B; for 7.5 volts = 1N4693, 1N755 or 1N5236B; for 6 volts = 1N5233B
These zener diodes will allow 400 or 500 mW, which should be sufficient for most portable radios and tape recorders.

Otto Seiler built the following circuit. He says it will deliver 0.5 amps and all of the parts are available from Radio Shack. He suggests that the circuit be built on perf board or etched copper-clad board and be mounted inside a minibox. He also advises that the fuse NOT be omitted.



Parts List :
R1, R6 6 ohms
R2, R3, R4, R5 3 ohms
All resistors must be of a 10 watt rating.
S1 on-off switch
F 0.5 ampere fuse
The battery may be wired with either positive or negative common lead as required.
Audio minijacks can be used for the outputs.

Antenna Project

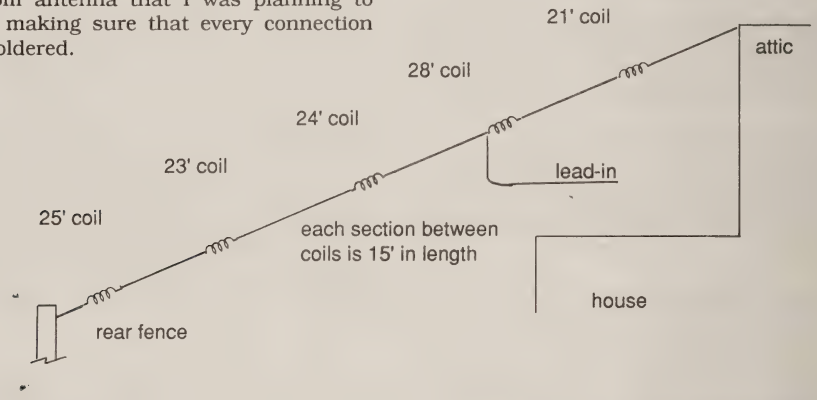
A Loaded Windom
by Mark Coady

My backyard only allows for about a 60 foot antenna. I wanted something that would be electrically longer, but still fit in the same space. Half-inch diameter wooden dowels cut into six inch lengths provided me with five coil forms that I wound 20 gauge wire around. It is possible to end up with coils that have between 20 and 30 feet of wire wrapped around them. Then I inserted them in the Windom antenna that I was planning to erect, making sure that every connection was soldered.

The result was a loaded Windom antenna that is electrically over 180 feet long, but stuck in only a sixty foot space.

The results so far on the Tropical bands have given me best-ever reception conditions for my QTH in downtown Toronto.

Where space is at a premium, don't be afraid to insert loading coils in your antenna. You just may be amazed at the results.



Abbreviations

We try to avoid most hobby abbreviations in DX ONTARIO, but occasionally we do use a few. The following should cover many that you will see in DXO or other hobby publications.

BCB	Broadcast Band
C&W	Country and Western
DX	long distance reception/station
EZL	easy listening music
FAX	facsimile (picture transmission)
GMT	Greenwich Mean Time (=UTC)
het	heterodyne
hi	laughter
IRC	International Reply Coupon
IS	Interval Signal
kHz	kiloHertz
LAm	Latin America
LW	longwave
m	meter
mb	meter band
MHz	MegaHertz
MW	mediumwave
NA	National Anthem
NAm	North America
pgm	program
QRM	man-made interference
QRN	noise
QSL	verification card/letter
RTTY	radio teletype
SASE	self-addressed stamped envelope
SSB	single side band
SWBC	shortwave broadcast
s/off	sign-off
s/on	sign-on
TC	time check
unid	unidentified
UTC	Universal Co-ordinated Time
ute	utility station
V.	Voice
v/s	verification signer
w/	with
WRTH	World Radio TV Handbook
//	parallel frequency
73	Best Wishes

Publications

Pirate Radio Directory, 1990 edition, by George Zeller, covers some 100 pirate radio stations which were active on shortwave during 1989. Information included is frequencies, times heard, program formats, ID announcements, announcer names, QSL addresses and more. Illustrated. Now available for $9.50 plus shipping from the ODXA.

SWL Forms is a package of thirteen "master" forms used by shortwave listeners and DXers. The forms include log sheets, reception report forms and record sheets, band surveys, target sheets, memory channels record, program comments form, and so on. Each one is a good quality black on white stock, which you can take to a printer and have copies made. The package even includes tips for what stock of paper to do the printing on. SWL Forms costs US$10.00 from Tiare Publications, P.O. Box 493, Lake Geneva, WI 53147.

Catch the Vision is a new 266-page history of Christian radio station HCJB. Located in Quito, Ecuador, HCJB, The Voice of the Andes, has had a long history. This book is very easy to read and includes a number of pictures. It is available from World Radio Missionary Fellowship, 2110 Argentia Road, Mississauga, Ontario L5N 2K7 for $ or P.O. Box 553000, Opa Locka, Florida 33055-0401 for US$

Get the Best from Your Sony ICF-2001D (or ICF-2010) by Steve Whitt is a new book dedicated to this very popular receiver. Written by a British DXer, it covers all aspects of operation, modifications and repair of the 2001D (European version)/2010 (North American version). It also discusses the weaknesses of the receiver and offers practical improvements, either through the use of internal modifications or external accessories. The price for this 32-page booklet is L6.00 or 15 IRCs airmail to North America. Order from Steve Whitt, 21 Cauldwell Avenue, Ipswich IP4 4EB, England.

The Challenging Crystal Set is a 40-page illustrated pamphlet by Ray Cole and published by the National Radio Club. It contains tips on building crystal radio sets using not only the classic components, but also with modern-day ones. US$4.00 in Canada and the US from NRC Publication Center, P.O. Box 164, Mannsville, NY 13661.

The World Radio Fellowship is a new organization that is making tape recordings of music from various areas of the world available. These are recordings of music as heard on shortwave and include Africa, the Pacific Islands, South America, and others. The tapes are US$7.00 each. There is also a regular newsletter. Send an SASE or US$1 for further information from World Radio Fellowship, 302 Tuttle Rd 4G, Woodbury, Conn 06798.

Secrets of Wartime Listening to the Enemy, by Arthur Cushen, is a new book by this world-famous DXer. In it Cushen gives a comprehensive report of enemy propaganda directed to the South Pacific 1941-45. It is based on monitoring reports he supplied to the New Zealand Security Intelligence Service and archived material from thousands of hours of listening. The book is illustrated with many QSLs from the era. US$4, $4.50NZ or 6 IRCs from Arthur Cushen Publications, 212 Earn St., Invercargill, New Zealand. It should also be available from Gilfer Shortwave in New Jersey. ●

S.I.G.N.A.L.

Special Interest Groups
Names and Addresses List

This notice board is for club members who would like to get in touch with others sharing a common interest, for the purpose of exchanging information. This month, Dave Elliston has the platform :

Incorporating shortwave listening and amateur radio into a learning programme and experience. For campers and staff at a year-round childrens' camp. Interested in other camps or educational facilities that are presently using radio as a teaching aid. Dave Elliston, Camp Tawingo RR 1, Huntsville P0A 1K0, (705)789-8576.

GETTING THE MOST FROM YOUR DX-440

by David Shearman

I would venture a guess that the most popular World Band radio among new members to ODXA is the DX-440 sold by Radio Shack. As I looked at the new member listing in the December issue of DX Ontario, I counted four DX-440's or their clones, all made by Sangean. The Sangean ATS-803A is sold around the World by Radio Shack as the DX-440, by ESKA as the RX 33, Matsui as the MR-4099, Emerson as ATS-803A, Siemens as RK 651 and by QUELLE as the Universum. It's a good radio for listening to World Band Broadcasts. It has a digital keypad and rotary dial, good fidelity, sensitivity, and a reasonable price (CDN $ 299.00 list). The DX-440 has also been on sale as low as $ 229.00 in the past year, contributing to it's popularity.

I've had my DX-440 for almost a year now. It was my "gift" from Michael Wilson last spring. I like the radio. But I have found a few tricks which might help you in your DXing or just plain listening pleasure.

Since you are reading this, I can presume that you are a member of ODXA. That means you are familiar with the contents of DX Ontario. I read mine from cover to cover. I'll be honest. I am a little envious of those people who can afford an NRD-525 or a SONY CRF-V21. They always seem to pull in those remote Andean stations with a flea-powered transmitter and make it sound like it's nothing. I have difficulty tuning WRNO at times! I have found though, that the International Loggings section of DX Ontario can be very useful in finding those offbeat or difficult stations, especially with a radio like the DX-440.

The first step in hunting for some good DX is to check your time. I leave the clock of my DX-440 set to Co-ordinated Universal Time. I set it about once a week using WWV 5000, 10000 or 15000 khz or CHU at 7335. That way I don't have to worry about converting from Eastern Standard to GMT and remembering if is it 4 or 5 hours different.

You can check the time on the DX-440 while it is operating by pressing the MODE button. Press again to return to the frequency display.

Look at the time listed in International Loggings. Now start reading the frequencies listed under the time. You should be able to find many of the stations listed. Don't get discouraged if you don't hear Radio Ulan Bator on 9615.7 between 1200 and 1259 the first time around! A better and almost certain catch is Radio Australia at 9580. Sometimes parallel frequencies are given. Check those out too. You never know what you might hear.

I play a little game with myself and try to see how many of the same loggings I can hear as listed in DX Ontario. For some time slots, I have hit 100%. Again, I know I won't catch that clandestine station from the Urals, but that's OK. I'm enjoying myself and that is what our hobby is all about. (By the way, if you look at the end of the International Loggings section and see what equipment the contributors are using, you will see that our DX-440 can receive the same stations as they do. No need for an inferiority complex!)

Make use of DX Ontario and open up those bands! Happy DXing! ◆

AM/FM/All-Band Radio With Digital Tuning

Fred Waterer
15 Watkins Street
St.Catharines, Ontario
L2M 1N3

LISTENING IN

Programming is what we listen to on shortwave and this column presents and discusses programs. The presenters of these programs and the stations they speak from are also topics of this column. Program Calendar gives advance tips on particular programs to be aired in the coming month.

COMMENT

"I am concerned about Radio Australia's future. I wrote to them in January 1990 with my comments. If any of DX ONTARIO members enjoy broadcasts from Radio Australia, I urge them to write to W.R. Ellis. A friend from Australia tells me that budget cuts will hit Radio Australia badly. Public pressure might help keep a good international shortwave broadcaster on the air." (Jerry Gault, Ottawa) - *Following is the letter received by Jerry.*

"Dear Mr. Gault :

"Thank you for your letter of 30 January 1990 to the Minister for Telecommunications and Aviation Support, the Hon. Ros Kelly MP, concerning the reception of Radio Australia's signal in Canada. As Parliament has been dissolved pending the General Election, I am responding to your letter.

"Radio Australia's future role as an international shortwave broadcaster is at present under review. As part of the review process, the Department of Transport and Communictions has commissioned a study of transmission needs to be carried out by Voice of America engineers during the next few months.

"I appreciate your interest in Radio Australia and your comments will be taken into account as the review process continues.

Yours sincerely, W.R. Ellis, First Assistant

NEWS

AUSTRALIA

For those of us who are farmers, **Radio Australia** presents "Agrinews" at 0930 UTC every Tuesday. On the February 27th program there was a report on honey bee queens being exported to Canada. Apparently American queen bees are subject to a deadly disease and the import of these bees into Canada has been banned - opening the door to more Australia exports. (Mark Coady)

ECUADOR

On May 6, **HCJB**'s English Service will make some major changes to it's program line-up. All Quito-produced programs will be consolidated into a one-hour block called Studio 9. This has resulted, among other things, in the dropping of our long running program "Passport" and a major cutback in "Happiness Is" from a seven-day-a-week program to two programs a week. These changes are being made primarily due to our limited personnel resources. The English service of HCJB consists of only a small team of producers and we feel this new format better reflects the resources that we have. We also believe the changes will enhance the service we can provide our listeners.

Studio 9 will play three times to North America, twice to Europe (morning and evening) and twice to the South Pacific. Each weekday release of Studio 9 will begin with a five-minute Latin American newscast followed by 15 minutes of in-depth news, current affairs, interviews and features. This will be followed by a different 30-minute feature program each day, as detailed below. The release will end with a five-minute bulletin of world news. On weekends, the format of Studio 9

will be slightly different. On Saturdays, following the Latin American newscast, there will be a 15-minute science program, Focus 2000, followed by DX Partyline. On Sundays, a sports program, Get Set, will play after the news and will be followed by Saludos Amigos

HCJB will soon welcome back Mark Irwin and Dee Baklenko following their furlough leave in the United States. Mark returns toward the end of May and Dee arrives back in mid-June.

Longtime producer Brian Seeley will be leaving HCJB in June. Brian has worked in the English Service for the past 11 years, serving as newsman and producer of Music in the Night and Musical Mailbag. Brian and his family are returning to Canada.

Listeners will be hearing some new voices on HCJB in coming weeks and months. Three people will be joining us from the United States in June for two months as part of HCJB's summer missionary program. Then several other folk will be coming after that to help in our newsroom.

HCJB has a FAX machine should you wish to use it. The number is 593-2-447263. Our TELEPHONE number is 593-2-241550, ext.0441.(All HCJB items from the May-June 1990 program notes)

NETHERLANDS

Radio Netherlands on Tuesdays has a short, but very good, science affairs program called "Science Stories". The March 5th issue had a report on the New Brunswick Candu reactor station that apparently suffered from sabotage after contaminated heavy water was found in the staff's coffee maker. (Mark Coady)

RADIO NETHERLANDS PROGRAMS

Monday-"Research File" is one of Europe's leading science programs. Regular host Anne Blair Gould hopes to return in May. In the meantime Jonathan Marks continues to cover a wide variety of fields including astronomy, medicine, consumer technology, wildlife and the environment. The programme format is flexible, ranging from a magazine-style presentation of shorter items (including updates on earlier stories), to in-depth documentaries. This summer we'll be visiting the northern Dutch city of Groningen to look at the science being studied in one of the country's oldest universities.

Tuesday"Images", is a Radio Netherlands' cultural magazine highlighting film, theatre, opera, authors and serious music. Martha Hawley, Marijke van de Meer, Susan Macready and Nevil Gray, provide an in-depth survey of the major European events.If you have specific suggestions as to which literary or musical events you would like covered, we would be interested to hear from you. During 1990 the programme will be giving extensive coverage to the celebrations commemorating the 100th anniversary of the death of Vincent van Gogh.

Wednesday-The second half of the Wednesday feature programme is devoted to serious music. Harry Kliphuis is your guide to new Dutch compact disc recordings, in Dutch.

Thursday-"Media Network". Join Jonathan Marks for this weekly survey of communication developments compiled with the assistance of over 178 monitors across the globe. The audio magazine runs on enthusiasm.

building on more than 30 years of experience in this field of programming. "Media Network" reflects the trends within the media business both in The Netherlands and around the world.

Friday-"Rembrandt Express", is the weekly magazine show named after Holland's most renowned artist. For the past 18 months the programme has featured a monthly column for gays and lesbians. The "Gay Front" was a first for Radio Netherlands, in fact for international radio as well.

Martha Hawley, producer and presenter of "Images"

Integration has been the driving force of the gay movement in Holland. This has now been reflected by integrating all important news on the gay front into the show.

After one-and-a-half years, Pete Myers feels there is no need to single out this particular minority group, but rather to throw the spotlight on another. As of March 30th he launches a new monthly column "Count Me In" that examines the world of the disabled person. Holland has an excellent record in caring for the disabled and on the last Friday of every month Pete will be discussing how Dutch society, a multitude of organizations and other institutes are facing the challenge of integrating disabled people in all walks of life. We would particularly like to hear from disabled listeners to get an idea of the sort of issues they would like discussed and finding out how that problem is tackled in Holland.

Saturday-"Over to You" is our listener contact programme. We welcome reactions to our transmissions, and questions about Holland. The entire production is spiced with music. We also phone listeners to get their opinions direct so, if possible, include a phone number when you write. You can also try the 24-hour listener answer line. Dial the international exchange code (e.g. 011 in USA, 010 in Britain), followed by 31 for Holland, 35 which is the area code for Hilversum, then the subscriber number 724222. You then have 90 seconds to leave a message which may be used on the air.

Sunday-All transmissions carry "Happy Station"; family entertainment with music, birthday mentions and competitions hosted by shortwave personality Tom Meyer. This is international radio's longest running show, having first hit the airwaves in 1928!

The 00300UTC English broadcast to North America is now available in the United States through the C-SPAN audio channel 1 on Tuesday and Thursday nights. The recently launched service is now being offered to cable companies across the US. If your cable company offers C-SPAN television, call your local cable operator and ask about the availability of the audio service. (Radio Netherlands Program Information Release)

NEW ZEALAND

Radio New Zealand International has an excellent program for the small fry on local Tuesdays at 0330 UTC. The male host presents stories and music. Although this program is on too late for our children - SWL's can easily tape it and replay it at a more convenient hour. The March 7th edition had a fairy tale , an interview with a young boy who was on a tour of RNZI studios, a children's song called, "My Daddy Goes Woof! Woof! Woof!", and a story about King Midas. The only station that I have heard this kind of programming before is our own CJRT 91.1 FM on Friday nights before their classical request program. (Mark Coady)

South Pacific Sound

RNZI broadcasts will begin each day with the call of the bellbird, followed by the karanga, the Maori cry which calls people onto the marae. Also to be heard will be the sound of the conch shell being blown and the beat of

Pacific drums. "These three sounds will let listeners know they are tuned into the South Pacific," says Ian Johnstone, RNZI manager. "A place where the Trade Winds blow, palms sway and to the south, a green and pleasant land known as New Zealand or Aotearoa." Adding to this Pacific influence will be the team at Te Reo O Aotearoa, Radio New Zealand's Auckland-based Maori and Polynesian Production Unit, which will supply some of the programmes. Samoan Maligi Evile is the chief Pacific Islands producer/announcer and Henare Te Ua heads Maori programming.Other staff are Mahe Nikora (Maori, Auckland), Puia Paita (Whangarei), Bruce Burns (Gisborne), Wai Tofu (Tongan), Vaine Temaera-Nicholls (Cook Islander), Malama Nilau (Niuean), Petala Kololo(Tokelauan) and Finau Tuisue (Fijian). In Wellington, the news team will include Kevin McQuillan from Hong Kong, Ian Morrison from Auckland, Susan Leiataua (a New Zealand-born Samoan) and Alma Tyrell, a New Zealand-born Cook Islander. Rudy Hill, senior producer and Linden Clark producer are both based in Wellington with Ian Johnstone."On any evening of the week there are some 48 countries beaming programmes into the South Pacific. Now we will be answering back," he says. "With the new stronger transmitter we will be heard around the world," he says.0"Our first bounce is to our Pacific neighbours. The second bounce is into Asia, Japan, Hawaii, California and Canada." RNZI will provide services to the Pacific, Polynesia and the Eastern Pacific and Melanesia and the Western Pacific."This way we can directly communicate with people in these areas in their own language about things that interest them," explains Johnstone.

"Radio stations around the Pacific rim will be monitoring us for news, share market reports and listening to hear what is happening in New Zealand," he says. Future expansion for the station could see broadcasts in Japanese.Special broadcasts will also be aimed at South America if the interest is there. (South Pacific Highwave, a publication of Radio New Zealand via John Spencer Carson Jr.)

NICARAGUA

La Voz de Nicaragua (recently drifting between 6200.0 and 6200.7) was monitored on February 26th between 0800 and 0900 UTC with their usual late night program of Latin American music. A live election report was heard at 0850 UTC in which it appeared things looked bad for the Sandinistas. BBC World Service news at 1300 confirmed that the Sandinistas had indeed gone down to defeat. The mood of the station was still upbeat despite the crushing defeat of the Sandinistas and Daniel Ortega. This was a good example of being there for the news as it was breaking and hearing it right from the source. (Mark Coady)

SOUTH AFRICA

When they are audible, **Radio 5**, on 4880 kHz, presents an excellent program on blues and jazz music just about every evening between 2300 UTC and their shutdown at 0000 UTC. The March 13th edition was devoted to the works of Lionel Hampton. (Mark Coady)

TRANS WORLD RADIO

Trans World Radio was granted permission by Soviet officials to set up radio recording studios in three Soviet cities: Moscow, Kiev and Minsk. These studios will enable TWR to provide better quality programming for the Soviet people.

In a collaboration of efforts, TWR will be working with the evangelical community in the Soviet Union as co-partners in reaching the Soviet people with the Gospel. "With studios located right in the Soviet Union, Soviet Christians there will now be able to reach their own people with the Gospel via our facilities," says Paul Semenchuk, TWR's Russian Ministries Coordinator. "Not only will the programs have a greater sense of presence, they will be prepared by individuals who best know the needs of the Church and the Soviet society."

TWR currently broadcasts nearly 50 hours of programs weekly into the USSR from it's transmitting locations in Monte Carlo and on Guam.

Last September the "Lutheran Hour" began sponsoring the production of a weekly 15-

minute program produced in England and broadcast over TWR - Monte Carlo into Hungary. The speaker and producer of the program is the Rev. Robert Patkai, pastor of a Lutheran Hungarian church in the London area.

Two new programs that began airing last fall over TWR's Monte Carlo transmitting location are targeted for Asians living in Europe and the USSR. One 15-minute program is in the Korean language and is broadcast to Korean-speaking listeners living in the south central part of the Soviet Union. The other 15-minute program is in Japanese and is broadcast to the Japanese business community living in central Europe. Away from their home countries, these individuals will be inclined to tune in to the radio programs to hear their own language spoken, and through the programs will hear a presentation of the Gospel.

This year TWR celebrates it's 20th anniversary of broadcasting into Czechoslovakia. During those years, the letters averaged 1,235 per year. However, before the end of the first month of this year, the count had already reached 450. Why the great increase?

Now that the people are free to express themselves without fear, listeners are pouring out their hearts in gratitude for what TWR programs have meant to them. Letters reveal stories of persecution and harassment as well as joy and thankfulness for the unbelievable miracle of Czechoslovakia's new political freedoms. One listener sent a sample of a handmade sign on which he had written the times and frequencies of TWR's Czech and Slovak broadcasts. In December he placed 200 of these signs in schools, in residence halls and at bus stops. Even the newspapers are printing the program schedule of TWR's broadcasts.

This year is the 20th anniversary of Trans World Radio's ministry to the country of Brazil. The 18-member staff attends to 1,000 listener letters a month and three different Bible correspondence courses of six lessons each. In addition, they produce 1,800 hours of programming which are broadcast over TWR's Bonaire and Swaziland stations, HCJB, and local stations throughout Brazil for a total of 4,000 broadcast hours a year. *(From May-June TWR report via Fred Waterer and March-April edition via John Spencer Carson Jr.)*

VATICAN CITY STATE

News from Eastern Europe

What kind of impact have the recent events in Eastern Europe had on the reception of ***Vatican Radio****?*

Monsignor ELDAROV (Bulgarian Programme):Recently censorship in Bulgaria has become less severe and listeners have been able to tune in to Vatican Radio without fearing retaliation. Deliberate interference has also stopped

Dr. DOZZI(Romanian Programme):In Rumania there is growing interest for Vatican Radio. We have the third highest rate of listeners at Vatican Radio and come immediately after the Polish Programme and the Czechoslovakian Programme, according to a survey by Radio Free Europe in 1988. Reception conditions have always been fairly good and without interference.

Fr. SZABO(Hungarian Programme): During the last 2-3 years the situation in Hungary has improved. Reception of Vatican Radio has always been possible and without interference. Censorship is less severe and religious freedom is assured.

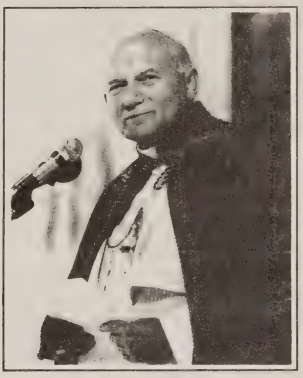
Is communication with listeners easier now? Have letters increased? What kind of news do you get?

Fr. KOCZAGAN (Ukrainian Programme):For 49 years we were not able to communicate with listeners, although there was a high audience reception rating. During the past year, which coincided with the anniversary of our programme, listeners have finally been able to correspond without fearing retaliation and we received 17,000 letters! The number of letters increase regularly and we now receive about 7,500 letters a month which confirms the high audience reception rating of Vatican Radio in Ukrainian.

Fr. KOLACEK (Czechoslovakian Programme):Communication with listeners is almost normal; we communicate both by letter and by telephone. The Church is free and all fundamental rights are respected. People can now not only listen to Vatican Radio but to an unbiased national radio.

Dr. DOZZI: Events in Rumania are too recent to evaluate fully. It seems likely religious

freedom, both in the Latin and in Byzantine-Rumanian rite should be restored after 41 years of suppression. We hope censorship of the postal service will be abolished as until now the only letters received were given to travellers from Western Europe who then forwarded them to us from their own countries.



Fr. DOMINIK (Russian Programme): Communication with listeners has improved since censorship was abolished. We receive a growing number of letters, although not nearly as many as the Ukrainians. Our listeners are mostly interested in relations between the Catholic and Orthodox Church and the Vatican's stand on the matter. Regarding political issues, the "new" Soviet press is extremely reliable and people no longer have to rely on Western radio stations to be informed on the domestic and international situation.

Have visits to Vatican Radio increased? Do the programme schedules and other publicity material reach your listeners regularly?

Dr. DOZZI: In 1989 no Rumanian group reached Italy, whereas previously two groups per year came over to visit us. We hope for a better future as regards distribution of publicity material which underwent censorship until now.

Fr. KOLACEK:On the occasion of the canonisation of St. Agnes of Prague, on the 12th November 1989, we received many visitors and now most Czechoslovakian Catholics who pass through Rome come and visit us.

Fr. KOCZAGAN: Unfortunately as yet we have no Ukrainian visitors. We have recently started sending programme schedules and in 1989 we sent 30,000 religious books to the Ukraine.

Mons. ELDAROV: We have just begun receiving a few messages from Bulgaria or from border areas and we will now start increasing the amount of publicity material we send.

Fr. DOMINIK: We receive visits from Russians who are passing through Rome, but not as yet of groups. The programme schedules seem to reach our listeners regularly. *(Radio Vaticana Programme Guide)*

RECOMMENDED LISTENING

SALUDOS AMIGOS - HCJB Ecuador

This is HCJB's international friendship program, hosted by Ken MacHarg. Each week Ken calls listeners from around the world who have written to him. Join in on the fun by dropping Ken a note and tuning into Saludos Amigos. Sundays 0050, 0250, 0520

MUSICAL MAILBAG-HCJB

This is HCJB's mailbag program with a difference. We've taken the mailbag concept and turned it inside out. Every week the Mailbag team get together to have fun and read your letters. This program can now be heard on UTC Sundays, following each release of Studio 9.

MAY PROGRAM CALENDAR

All days and times are listed in UTC/GMT For frequency information, consult World English Survey. A brief synopsis of each program is given under the first listing each month. It is recommended that you read this carefully at the beginning of the month and make note of feature programs you may want to listen to.

Wed. May 2, 1990
A Voice of Our Own-BBC <> ethnic newspapers in Britain 0130, 0945,1945

Goldmine in the Dustbin-BBC <> new technologies for recycling 1215, 3rd 0630,1930

Thur. May 3, 1990
HAM Radio Today-HCJB <> What are ionosondes 0050,0250,0520

Mediawatch-BBC <> media revolution in Eastern Europe 0730, 2145

Fri. May 4, 1990
Tchaikovsky-BBC <> 8 part series traces the life and works of the great composer 0030,1030,1715

Media Network-Radio Netherlands <> 1990 Dayton Hamvention, new ICOMs, Arthur Cushen 0030, 0330

Sun. May 6,1990
DX Partyline-HCJB <> Radio in the Balkan States, Neil Carleton's Radio Stamps 0050, 0250, 0520

Play of the Week-BBC <> The Mystery of Edwin Drood 0101, 1201,1901

Russia, the Drive to Empire-BBC <> Muscovy, the Baltic and the Black Sea 1682-1801 1401, 2330; 7th 0630, 1001

Round Britain Quiz-BBC <> 2030; 7th 1215; 10th 0330

Mon. May 7, 1990
Bread, Hashish and Moonlight-BBC <> A series about Arabic poetry 0815, 2315; 8th 1515

Europe's World-BBC <> Rapid and dramatic changes taking place in Europe 2115; 8th 0145, 0730

Tues. May 8, 1990
Dateline 90-HCJB0(premier edition) <> Bias in the media 0050,0250,0520

Omnibus-BBC <> a portrait of philosopher Simone de Beauvoir 1615; 9th 0030, 1001

Wed. May 9, 1990
Happiness Is - HCJB <> South. America's early revolutionary past 0050,0250,0520

A Voice of Our Own-BBC <> 0130, 0945, 1945

Goldmine in the Dustbin-BBC-1215; 10th 0630, 1930

Thur. May 10, 1990
Documentary Special-Radio Netherlands <> 50th anniversary of the German invasion of Holland 0030, 0330

HAM Radio Today-HCJB <> Controlling transmission distance, contesting 0050, 0250, 0520

Mediawatch-BBC <> 0730, 1445, 2145

Fri. May 11, 1990
Media Network-Radio Netherlands <> Media aspects of the German invasion of Holland 0030, 0330

Tchaikovsky-BBC <> 0030, 1030, 1730

Playing God-BBC <> genetic engineering 0730,1215; 12th 2130

Sun. May 13, 1990
DX Partyline-HCJB <> Radio in Finland, ICOM IC-R9000 0050 , 0250, 0520

Play of the Week-BBC <> The Mystery of Edwin Drood 0101, 1201, 1901

Russia, the Drive to Empire-BBC <> The Age of Empire 1801-1917 1401, 2330; 14th 0630, 1001

Round Britain Quiz-BBC <> 2030; 14th 1215; 17th 0330

Mon. May 14,1990
Bread, Hashish and Moonlight-BBC <> Arabic poetry 0815, 2315; 16th 1515

Europe's World-BBC <> 2115; 15th 0145, 0730

Tues. May 15,1990
Dateline 90-HCJB <> Russia, It's Present and Future 0050, 0250,0520

Wed. May 16,1990
Happiness Is-HCJB <> Ecuador's exotic jungles 0050, 0250, 0520

A Voice of Our Own-BBC <> 0130, 0945, 1945

Goldmine in the Dustbin-BBC <> 1215; 17th 0630, 1930

Thur. May 16, 1990
Pins, Paper and Pipes-Radio Netherlands <> examines mechanical musical instruments 0030,0330

Mediawatch-BBC <> 0730, 1445, 2145

Fri. May 18, 1990
Media Network-Radio Netherlands <> 0030, 0330

Tchaikovsky-BBC <> 0030, 1030, 1715

Playing God-BBC <> 0730, 1215; 19th 2130

Sun. May 20, 1990
DX Partyline-HCJB <> Television's first 50 years, DXing the TV Bands, Pacific Report 0050, 0250, 0520

Play of the Week-BBC <> The Ultimate Invention 0101, 1201, 1901

Russia, the Drive to Empire-BBC <> Revolution and the Rise of Soviet Power 1401, 2330; 21st 0630, 1001

Round Britain Quiz-BBC <> 2030; 21st 1215; 24th 0330

Mon. May 21, 1990
Bread, Hashish and Moonlight-BBC <> Arabic poetry 0815, 2315; 23rd 1515

Europe's World-BBC <> 2115, 22nd 0145, 0730

Tues. May 22, 1990
Dateline 90-HCJB <> International Literacy Year 0050, 0250, 0520

Wed. May 23, 1990
Happiness Is-HCJB <> a visit to the village of No-No 0050,0250,0520

A Voice of Our Own-BBC <> 0130, 0945;

Goldmine in the Dustbin-BBC <> 1215; 24th 0630, 1930

Thur. May 24, 1990
Pins, Paper and Pipes-Radio Netherlands <> 0030, 0330

HAM Radio Today-HCJB <> Two-meter FM 0050,0250,0520

Mediawatch-BBC <> 1445,2145

Fri. May 25, 1990
Media Network-Radio Netherlands <> TV Standards, High Definition TV 0030, 0330

Tchaikovsky-BBC <> 0030, 1030,1715

Preservation or Progress-BBC <> the quest to save Britain's historic buildings balanced against the needs of modern society 0730,1215; 26th 2130

Sun. May 27, 1990
DX Partyline-HCJB <> ANARC,EDXC, and SPARC reports, profile of broadcasting in the Canary Islands 0050,0250,0520

Russia, the Drive to Empire-BBC <> The Soviet Union Today 01401, 2330; 28th 0630,1001

Round Britain Quiz-BBC <> 2030; 28th 1215; 31st 0330

Mon. May 28, 1990
Bread, Hashish and Moonlight-BBC <> Arabic poetry 0815, 2315; 30th 1515

Europe's World-BBC <> 2115; 29th 0145, 0730

Wed. May 30, 1990
Happiness Is-HCJB <> Ecuador's province of Manabi 0050, 0250, 0520

A Voice of Our Own-BBC <> 0130,0945,1945

Goldmine in the Dustbin-BBC <> 1215, 31st 0630,1930

Thur. May 31, 1990
Pins, Paper and Pipes-Radio Netherlands <> 0030, 0330

Good listening! ◆

Time Conversion Chart

AM EST	AM UTC	PM EST	PM UTC
1	0600	1	1800
2	0700	2	1900
3	0800	3	2000
4	0900	4	2100
5	1000	5	2200
6	1100	6	2300
7	1200	7	0000
8	1300	8	0100
9	1400	9	0200
10	1500	10	0300
11	1600	11	0400
12	1700	12	0500

(tnx to Doug Ellwood)

Morris Sorensen
777 Sammon Avenue
Toronto, Ontario
M4C 2E6

DOMESTIC BROADCAST

***Domestic Broadcast** keeps you up-to-date on the North American broadcasting scene - mediumwave, FM and television. Besides news, there are listings of receptions made by members and reported to the column. Your contribution would be most welcome!*

Hi Everyone,

Another good month with 9 reporters excluding ye editor! Just another reminder that the season for FM and TV DX is now upon us. Watch out for sporadic E skip bringing intense openings from distances of well over 1000 km. Sporadic E works its way up from TV Ch. 2. A strong opening will be noted on TV Ch. 2-6 plus the FM band. Southern openings (e.g. Florida, Alabama, Georgia, etc.) are most common in Ontario but openings to the west and southwest are not unusual.

Also watch for tropo (extended ground wave out to 500 km or more) particularly during temperature inversions. Unlike sporadic E, tropo is usually fairly steady across the FM band and TV channels 2-13, and can actually be superior on the UHF TV channels (14 and up) where Sporadic E never occurs.

Additional tips on TV and FM DXing may be found in my spring and early summer 1989 columns. ◆

LOGGINGS

Times EST (please use EDT now that we are into April!)

Medium Wave DX

Mark Coady, Toronto. Receivers: Magnavox D2999 / Sony ICF-2010

920+ WBAA West Lafayette IN March 20 2114 (fair) man with classical music program featuring Chicago Symphony whose music director "was formerly the conductor of our own Indiana Philharmonic".

950 WPEN Philadelphia PA March 20 1909 (fair) Big Band music, ID by man as "Your station for good music, WPEN" Interference from WBBF & CKBB.

980 WWRC Washington DC March 20 2157 with promo "Listen to it on Talk Radio WRC", singing ID @ 2159 into news @ 2200. (fair to good) They drop the second W from the spoken ID and have it as an echo effect on the singing ID!

990 WIVK Knoxville TN March 20 2057 (fair) Jerry Reed music, ID by female, weather from "Channel 10 meteorologist for WIVK Knoxville weather", etc. These calls formerly used on 850 per NRC log.

1030 WYSL Avon NY March 20 1813 (good) s/off announcements mentioning studio & transmitter sites into "Star Spangled Banner" & off by 1815.

1200 WAGE Leesburg VA March 20 2029 (fair) with local ad into "WAGE sports" WBZY partially nulled.

Marshall Cubitt Smiths Falls Rcvr: Sony ICF-2001 Antenna: 11m Groundplane (*=new to log)

1320 WATR Waterbury CT March 14 1743 with ID, talk on job stress, much splatter from CIWW-1310.

1340 CKNR Elliot Lake ON March 14 2105, ID only after news.

*1450 WKXL Concord NH March 14 1841 program promo "1450 WKXL" ID

1590 WARV Warwick RI March 14 1712 talk on church, mention of East Providence, no ID heard.

1590 WAKR Akron DH March 14 1716 ID into "Weather Watch"

Marshall, I hope to see you at the Smiths Falls Amateur Radio Club on May 5th! By the way

per NRC the new calls for Evansville IN which you reported last month on 1280 are WWOK (ex-WGBF) - ed.

Morris Sorensen DXing in Kemptville. Rcvr: Zenith Trans-Oceanic (circa 1950)
Ant: Zenith "Wave Magnet"

630 WPRO Providence RI March 4 2340 (good) ID "The music is good for your soul", Easter Seal message, Nutri sweet ad, ID jingle, etc. obliterating local CJET

1360 WDRC Hartford CT March 2 2322 (poor) ID by man as "1360 WDRC" then faded under heavy interference although basketball heard later may have been them.

1390 WDOT Burlington VT March 3 1919 (fair) call letter ID, "Champlain Valley weather" by female mentioning temperature in Burlington, ID by female as "The best country ... on WDOT".

1470 CHOW Welland ON March 4 2333 (good) McDonald's ad mentioning outlets in Welland and Port Colborne, CHOW contest promo, ID by man as "Your home of country music, AM 1470 CHOW".

1600 WAAM Ann Arbor MI March 2 2400 (fair) ID by man "We are WAAM Ann Arbor - Ypsilanti" into news.

QSLs Received

Medium-wave

750 WSB Atlanta, GA. Partial data form letter and sticker in 23 days. (Kenneth D. MacHarg - Jeffersonville IN)

1130 WNEW New York, NY. Full data "microphone" QSL card and coverage map in 30 days. (MacHarg-IN)

1040 WHO Des Moines, IA. Partial data "owl" QSL card and sports schedules/calendars in 30 days. (MacHarg-IN)

1010 CFRB Toronto, ON. No-data QSL card in 33 days. (MacHarg-IN)

1190 WOWO Ft. Wayne, IN. Full data QSL card, bumper sticker, coverage map in 46 days. (MacHarg-IN)

540 WSTH Columbus, GA. Reply written on original letter in 10 days for return postage. v/s is Mason. (Bob Walker-Wixom MI)

640 WJTZ Blountville, TN. Full detail letter in 19 days for return postage. v/s is Mitch Sandidge, chief engineer. (Walker-MI)

650 WKKQ Nashwauk, MN. Coverage maps, bumper stickers, but no QSL! received in 17 days. (Walker-MI)

680 WCNN Atlanta, GA. Partial detail letter, coverage map, station info and sticker in 9 days for follow up report. v/s is WCNN Engineering Dept. (Walker-MI)

710 WFNR Blacksburg, VA. Personal letter in 14 days for return postage. v/s is Bill Lineberry. (Walker-MI)

740 WSVQ Harrogate, TN. Partial detail letter in 1 month for return postage. v/s is Tom Amis, general manager. (Walker-MI)

810 WGY Schenectady, NY. Full data card and station info in 7 days for mint stamp. v/s is Louis M. Correia, chief engineer. (Walker-MI)

820 WBAP Dallas, TX. Letter and bumper sticker in 5 months for mint stamp. v/s is Roger Helling, chief engineer. (Walker-MI)

970 WWIT Canton, NC. Report written on original letter, business card in 22 days for return postage. v/s is Gary Ayers, president/general manager. (Walker-MI)

1280 WONW Defiance, OH. Full detail letter in 6 days for mint stamp. v/s is Robert E. McLimans, vice president/station manager. (Walker-MI)

1480 WRSW Warsaw, IN. Letter and coverage map for test transmission. Received in 5 days for return postage. v/s is James L. Swearingen, chief engineer. (Walker-MI)

1510 WWHN Joliet, IL. Letter, coverage map and station info in 12 days for mint stamp. v/s is T.M. Hawkins, vice president/general manager. (Walker-MI)

1560 WSBV South Boston, VA. Handwritten note, bumper sticker and station info for mint stamp (not used) in 15 days for follow up report. v/s is Alvin Wynn. (Walker-MI)

FM

89.1 WBNI Ft. Wayne, IN. Partial detail letter, bumper stickers, program guide and station info in 16 days for return postage. v/s is Bruce R. Haines, general manager. (Walker-MI)

91.1 WFUM Flint, MI. Full detail letter in 26 days for mint stamp. v/s is Larry Russell, transmitter operator. (Walker-MI)

92.7 WMMQ Charlotte-Lansing, MI. Letter, bumper stickers and cassette tape in 12 days for return postage. v/s is Dan Bryan, program director. (Walker-MI)

96.7 WUFN Albion, MI. Verification written on station bumper sticker in 6 months for return postage. v/s is Ed Trombly, engineer. (Walker-MI)

96.9 WLAV Grand Rapids, MI. Personal letter in 16 days for mint stamp. v/s is Red Noize, program director. (Walker-MI)

100.5 WKXA Findlay, OH. Full detail letter in 6 days for mint stamp. v/s is Jeffrey P. Hawkins, engineering. (Walker-MI)

101.5 WNSN South Bend, IN. Letter and coverage map in 7 days for return postage. v/s is Robert W. Bell, chief engineer. (Walker-MI)

104.1 WVGR Grand Rapids, MI. Full detail letter, program guides in 11 days for return postage. v/s is Jim Paffenbarger, senior engineer. (Walker-MI)

105.5 WWCK Flint, MI. Letter in 6 days for return postage. v/s is Mark Meyer, chief engineer. (Walker-MI)

106.1 WJXQ Jackson, MI. Letter and bumper stickers in 11 days for mint stamp. No v/s. (Walker-MI)

Station News

ONTARIO

Fort Erie: According to a verification letter received from announcer Ian Thorton, CJFT-530 will drop its all night feed from "Canadian Radio Network", a national satellite network, in favour of locally produced tapes. It was felt that the rock music on this service was not in keeping with CJFT's normal format of big band, Frank Sinatra and other nostalgic music. (Dan Hanington-Shallow Lake, ON) (Welcome to the column Dan!-ed)

Maynooth: CBOD 89.3 (a CBC English language rebroadcaster) is now on the air testing. This station will eventually replace CBOD-1400, a 40 watt low power relay transmitter in Maynooth. (Andy Reid-Peterborough,ON)

Mindemoya (Manitoulin Island) CBEN-540 a 40 watt relay transmitter which operated here for years is now silent. CBCE 97.5 with 21 kw in Little Current made it redundant. (Reid)

Smith's Falls: CJET-630 has dropped country music in favour of an easy listening format. Quite a few listeners are upset! (Cubitt)

NEW YORK:

Rochester: WEZO-990 has dropped its beautiful music format and now simulcasts with WRMM 101.3 ("Warm FM"). The WEZO calls are no longer used. (Bill Dulmage-Colborne, ON) ◆

Press Clippings

CKO Licenses Attract Prospective Applicants:

"CKO may be gone from the airwaves but it has a very definite presence in the investment considerations of some Canadian broadcast companies. Both Tier One Communications Inc. of Toronto and CTV have expressed strong interests in obtaining the all-news radio network which went out of business last November. In an interview with the Globe and Mail, Tier One President Michael Vaughan said his company will attempt to obtain all 12 of the licenses across Canada that made up the CKO Network. Vaughan wants all the licenses in order to revive the national all-news system, but it is generally believed that the licenses, now in the hands of the CRTC, will be re-awarded singly or in small groupings. Obtaining some of these licenses may indeed be CTV's plan, principles from which have confirmed their interest in the former CKO frequencies. The most prized of these would be those assigned to the Toronto and Vancouver markets. CKO was quickly put to death by Agra Industries Ltd. of Saskatoon on November 10, in the wake of losses totalling $55 million over 13 years." (Broadcaster: February 1990) ◆

Visually Impaired Reading Service Denied:

The CRTC has denied the license application of a reading service for the visually impaired saying that their application was "deficient in several aspects, especially organizational structure and accountability for service". The service has vowed to try again after examining the CRTC's concerns. (Toronto Star Feb. 18/90 and Globe and Mail Feb. 19/90, both via Harold Sellers, Newmarket) ◆

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Staying in touch to get harder as budget cuts hit northern radio:

Sioux Lookout, Ont.
When Joseph Sakchekapo was flown to hospital in Sioux Lookout last week after suffering a heart attack, his wife Sarah became a radio star, taking to the airwaves to broadcast reports on her husband's condition.

By Southern Canada's standards, it may not have been scintillating radio. But for the isolated Indian communities of Ontario's vast North - and especially for Mr. Sakchekapo's 15 households of kin near Round Lake, 400 kilometers north of Sioux Lookout - it was a typical example of how a community radio network functions.

"If somebody passes away they usually keep the radio station on until 1, 2 or 3 in the morning," said Martha Chikane, 26, also from the Round Lake area.

But budget cuts announced last week by the federal government will hit hard at the community radio network and other programs run by Wawatay Native Communications Society.

The Secretary of State cut the entire budget for native newspapers - $3.4 million - as well as $2 million, or 16 per cent, from its program for native broadcasters.

Wawatay, launched in 1973, helps knit the 40 far-flung communities of the Nishnawbe Aski Nation, and keep them informed - in English and Oji-Cree - about the latest changes to the Indian Act, health issues, and family emergencies like the Sakchekapos'.

This week, for example, the radio network is broadcasting live from a conference of Indian chiefs in Timmins, Ont.
Even CBC Radio does not reach most of these largely fly-in communities, although some do have satellite dishes for television reception. Just 20,000 people live in the 545,000 square kilometers of this section of Ontario's North.

From its headquarters in Sioux Lookout, northwest of Thunder Bay, Wawatay broadcasts to 30 communities with its radio network. It also publishes a twice-monthly bilingual newspaper (in English and Oji-Cree), runs a fledgling television unit (two hours of programs a week), rents high-frequency trail radios to trappers and operates a translation service that works with government agencies.

Wawatay employs about 55 people and runs on about $2.1 million a year, of which $1.9 million is from government. Of that, $600,000 is being cut by Secretary of State Gerry Weiner.

So Wawatay is being forced to make choices about what it can afford to keep, and what it must close. Its newspaper, for example, could come out monthly; it could carry less news and could even cut out its Indian language translations of articles, since these do not bring in advertising revenue. Layoffs seem certain. Some expanded profit-making ventures could raise some new money.

Other native newspapers among the 15 or so in Canada may be worse off.

"All of them are making brave statements," said Rob Belfry, spokesman for the National Aboriginal Communications Society.

"They're sort of upset with us for saying they're going to fold. But I can't see how they're going to survive . . .. Economic bases on reserves are very limited."

Wawatay's board of directors, which sees its mandate preservation of native culture and language, is resisting purely bottom-line decision-making. It wants to save the newspaper's Oji-Cree translations, for example.

Lawrence Martin, executive director of Wawatay, says a 1985 federal government study reported that only three of 53 native languages in Canada were likely to survive over the next 20 years.

cont'd

Anne Maxwell, 27, an associate editor of Wawatay's newspaper, does not speak an Indian language. "When I was young, people were ashamed of being native and ashamed of their language," said Ms. Maxwell, who studied journalism at Carlton University in Ottawa. "I was glad when I was 15 and I didn't know the language."

She finds it sadly ironic that her mother is the translator for Wawatay News.

"Through my involvement at Wawatay, it's created pride in the language and the culture, and I know that that's what Wawatay is doing for other people," Ms. Maxwell said. "We're finally building this pride."

Bill Morris, a jack-of-all-trades for the radio network, said that when the network was begun in 1984 he had trouble understanding some of the half-dozen dialects of the Oji-Cree it broadcast. "Now it's easy. You get used to the dialects," he said.

Martin Tuesday, manager of Wawatay television, said the two hours of weekly TV cultural and news shows are "important because everything is done in Oji-Cree. It's done with native talent, all Nishnawbe people, and they're shown in a positive way.

"It's natives as they are, not natives in the Hollywood picture . . . . The only time we see natives in the (mainstream) papers is when there's some kind of extreme conflict."

The programs are transmitted from TV Ontario in Toronto, and shown on Ontario's legislative channel, which does not require cable.

Trappers are especially angry about the budget cuts, Mr. Martin said, because they rely on the trail radios for information and to call for help if they get lost or hurt in the bush.

Trapper Gordon Beardy said he takes his wife and children with him when he goes trapping, and they can be gone for two months. "There's a lot of incidents up north where people called for emergencies, but I've always felt secure (because of the trail radio)."

(by Sean Fine, Globe and Mail, Feb. 28/90, via Harold Sellers)

Thanks for that item Harold. Many of you know of my interest in native broadcasting. One can only hope that the government will reconsider the cuts. Harold also sends an article from the March 29th Globe and Mail that the Government of the Northwest Territories with help from Ottawa will give a reprieve to native broadcasters in the NWT who were also facing drastic budget cuts. Some funding is also expected to be made available to other native groups across Canada so hopefully Wawatay will get some help. ◆

******

AM vs FM

Recently there has been a lot of concern over declining AM listenership. The following article takes another look at the problem.

An AM radio economy commentary by Eric Norberg, Adult Contemporary Music Research Letter, Portland, Ore.

Broadcasting magazine recently presented a series of fascinating and useful articles examining the state of AM radio and seeking solutions to declining audiences. The articles have presented a sound overview of the problems, and various points of view, but have also made it clear that many of the "experts" may not be correctly reading audience needs and desires.

Underlining the problem AM radio has gotten itself into is the observation by Broadcasting in its Oct. 9, 1989, issue that "a look at the trends in AM formats over the last two years suggests that AM broadcasters are turning away from music formats and are increasingly programming news, talk or some variation of the two." It takes only simple arithmetic to see what the problem here is: Combined audience levels for talk formats in even the biggest markets seldom top 20% of total shares, and 54% of all operating commercial radio stations in the United States are on the AM band. A few AM talk stations will always be successful, but the future or salvation of the AM band has to be something other than talk, or these percentages warn that most AM stations cannot survive. Fortunately, AM broadcasting does have a future with programming that accounts for most of the remaining 80% of audience shares - music - provided it satisfies audience expectations about content and presentation.

The fact that AM and FM are perceived as

different services by the adult public and they always have been. FM's success followed the acceptance of high fidelity stereo equipment into the home, and found its niche as a texture, a background, in homes, offices, and elsewhere. AM's tradition was more involving, and to this day adults of all ages turn to AM for different elements that FM - and usually don't get what they're looking for.

In a nutshell, here is the distinction: When adults are doing active mental work, they tune in FM for a background (even rock formats get the best audiences on FM by minimizing textural differences). But, when adults are doing routine, boring work - driving, washing dishes, repetitive easy tasks of various sorts - they switch on AM, and look for the energy, content, variety, and substance that will keep them interested.

To put it more bluntly, FM succeeds best when it is rather boring and doesn't overly attract attention; AM succeeds best when it involves and interests the listener. Surely AM has a hidden advantage - FM's can't "get interesting" to compete.

Note that this clear difference in adult audience expectations for the two radio bands explains a great deal of what we've been seeing in the ratings, in all markets, in recent years. It explains:

• Why background music formats, which started on AM, rapidly died once the format transferred to FM, but the production values that showcased the format on AM (harps, poetry, etc.) failed to work on FM and were discarded.

• Why talk formats work better on AM.

• Why music formats that exist on both bands tend to diverge in their successful approaches. For example, AM country stations still do better with considerable personality involvement, regular news, countdowns and production values, while their FM cousins have evolved into a successful formula of minimized content and interruptions, long music sweeps, and elimination of most DJ chatter and regular newscasts outside of commute times.

• Why pop music formats on FM directed toward adults have had their success in recent years while avoiding new and unfamiliar music, yet AM stations trying to "safely program" the same way have seen major audience erosion.

• Why the elements that built AM from the mid-50's to mid-70's, including jingles and diverse formatic elements, don't seem to work that well on FM. (Seeing that, AM stations have dropped them too - a bad mistake.)

• Why top 40, whose demos on AM used to taper slowly downward across age 40 and even beyond age 50 in some cases, on FM never drew as well from adults over the age of 25 or 30 right from the start, even while using the same elements that adults accepted on AM.

Most of all I think, it explains why AM's response to FM gains in the last 15 years - that is, to drop its own successful approaches, and copy the "successful" FM approaches - have played directly into FM's hands by offering only a copy of FM on AM, rather than AM programming the way the audience expects it.

This is not to say AM operators will find fast success by making use of these insights; there's more audience to work with on FM than AM, which makes gains harder to get, and many years of programming imitative of FM - or oriented toward lots of yak - has lowered audience expectations badly. But many AM stations still have a decent cume tuning in each week who will hear the changes, and shrewd marketing can even help a new AM station attract a new cume, if the programming really responds to audience desires.

The precise ways in which AM should implement these research findings for its own renaissance are outside the scope of this article, although from my own experience I can guarantee you that applying these findings definitely does work - sometimes spectacularly. Since the only bargains in radio stations today are the AM stations that are selling for far less than they are worth (often far less even than they can realistically make, as a business), it is time for broadcasters to snap them up and start programming what the audience really wants to hear on AM.

Incidentally, does all of this mean that the technical upgrade of AM is unnecessary, or unimportant?

Far from it. AM suffered an identity crisis when the general public discovered what audiophiles had known for decades - a high-quality sound system is fun to own. When they switched on the radio section of those new stereos, FM sounded great, and the AM band sounded crummy. It was a receiver problem, but to the listener the lesson seemed clear: AM was inferior and obsolete; FM was modern, high-fidelity stereo. AM must regain its place as a listener choice by restoring sonic parity with FM - which it truly can, with the NRSC curve and C-Quam stereo. No AM station, of any format, should fail to install both these upgrades . . . now.

But in the end, without responsive programming appeal to the listener who tunes AM, there can be no AM renaissance.

Broadcasting Jan 22, 1990 (via John Spencer Carson, Norman, Okla.)

That's it for now. I've enjoyed meeting many of you at various club functions over the past few months and hope to see many more of you at the ODXA Open House at Todmorden Mills Museum where I work on June 2nd. Special thanks to reporters Carson, Coady, Cubitt, Dulmage, Hanington, MacHarg, Reid, Sellers & Walker.

73,
Morris Sorensen

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MEDIUMWAVE INTERNATIONAL

You can hear some unusual DX from foreign domestic broadcasters on the AM, or Medium Wave, band. "Mediumwave International" lists the latest logs of such stations made by Ontario DXers with up-to-date DX News tips.

◆ Look for MWLOG.ZIP and ODXALOG.ZIP in the recent uploads sections if you are using a BBS. They are both versions of the ODXA Foreign Medium Wave Log which I have been maintaining for the last couple of years. I uploaded these to a number of computer bulletin boards last month.

Both contain over 1000 Foreign DX Medium Wave logs reported (mainly) to this column since 1986. MWLOG.ZIP is in ASCII format and is the simplest to use. Just download and unzip it, then use the DOS Print command, or DOS Copy LPT1 to send it to your printer. ODXALOG.ZIP is in DBase III format, so you'll need DBase III (or compatible) data base software.

★★★★★★★★★★

◆ Get a load of the logs snagged by Cedric Marshall at Dave Clark's antenna farm in Newmarket. Cedric used receivers that included an NRD-525, HQ-180, R-388 and R-390.

1620 Print Handicapped Radio, Canberra : March 16, 1107. Strong, heard easily in peaks. Man reading a story about students at a school or university ending at 1116 with the title, author and the reader's name. Two men announcers followed with a request program giving a phone number and an ID as "...on the dial, 1620 here in Canberra". Signal faded and was gone by 1122. (MARSHALL)

Cedric adds "I sent a cassette tape of the strongest few minutes of reception to the station. At 7:15 AM on Apr 3, I received a surprise telephone call from them. They said that my report was correct, confirmed power as 500 watts and told me that the excitement generated by my report at the station was incredible. Apparently I have a package coming in the mail with a verification letter among various other interesting things...more details to follow."

1629 Print Handicapped Radio (2RPH, Sydney or 3RPH, Melbourne) on March 12, 1110. Fair in peaks, mixing occasionally with a weaker one (presumed to be the other Australian on the channel.) A man talking in a discussion or current affairs program called "Cheers" (a radio version of a magazine) which ended at 1116 with theme music. Talk about "Australian Bicentennial Civilian Club" that might have involved a days-long expedition or race. At 1130 a lady announcer with a (possible) story, fading by 1140. Also heard on various other dates (often mixing with the other) so unsure if the same station dominated each time. (MARSHALL)

Nice DX Cedric. Thanks and congratulations. I'll bet you're happy — even if you did have to "lower" yourself (or should I say had to tune "lower") to get them. See! Life doesn't just revolve around obscure Indonesian and Peruvian stations on 120 and 90 metres. HI!

◆ In addition to his logs, Mark Coady sent the plans for a homebrew 1 foot loop that he claims does as well as his Select-a-tenna. (I always said that they must have seen you coming when you bought that thing Coady! HI!) I won't include the plans now because I've already described such an antenna in this column. As well, I gave out information on how to construct one at the Convention last summer.

◆ Bob Chandler sends logs too, and by gosh! I even got time to DX some myself this month. (Pitifully little though!) Cubans are in good supply (yawn...) and Mexicans made

in good supply (yawn...) and Mexicans made a good showing as did Colombians. I even managed to hear Progresso under CFGM one night — only tentative mind you. It's tough to discern Spanish talk under a cowboy's nasal twangs.

LOGGINGS

540 MEXICO, XEWA, Superstar, San Louis Potosi. Apr 12, 0340. SPANISH. Weak but discernible under CBEF with Latin vocals, punctuated announcements by a man. Quasi-ID as "La favorito de Mexico" at 0341. (FUNKENHAUSER)

660 UNID — Possible Latin : Mar 20, 0622. SPANISH. Very low level, poor with vague traces of WFAN. Popular light vocals, man and woman announcers. Too late for the Venezuelan heard signing- off here at 0400. Perhaps XERIN below? (FUNKENHAUSER)

660t MEXICO, XERIN, Radio Infantil, Mexico : Apr 12, 0348. SPANISH. Over a weak WFAN in Auroral conditions with a second SPANISH station. Easy-listening Latin vocals. Man announcer at 0354 mentioned "La Voz de ... Amateo(?)..." and a mention of "Infantil" at 0403. (FUNKENHAUSER)

670 VENEZUELA, YVLL, Radio Rumbos, Caracas : Apr 12, 0429. SPANISH. Strong QRM to the Cuban here, WGN was running a weak third. Simple "Radio Rumbos" ID at 0430 then into lively singing. Heard in // with 4970. (FUNKENHAUSER)

700 JAMAICA, JBC-Radio One, Montego Bay : Mar 10, 0624. ENGLISH. Poor in a WWL null. Male announcer in accented English over reggae tunes, mentioned "Good morning people in Jamaica. Good morning to you brothers.", also shouted "JBC" slogans. (CHANDLER)

720 JAMAICA, Radio Jamaica, Kingston : Mar 10, 0640. ENGLISH. Poor in a WGN null. Reggae music. (CHANDLER)

720 VENEZUELA, YVQL, Radio Vision Oriente, Porlomar : MAR 20, 0055. SPANISH. Fair. "Futbol" with two men announcers. Mentions of "Carabobo", quasi-ID as "Caracas, en la capital de la Republica.". Frequent mentions of "la Republica" and brief ads (including a "Motorcraft...equipe original!"). Presumed to be YVQL though no ID heard. (FUNKENHAUSER)

730 MEXICO, XEX, Mexico : Mar 20, 0508. Good, steady signal. SPANISH. Another "futbol" game with play-by-plays — Mexico Dos!Uruguay Zero! . (FUNKENHAUSER)

738 possibly TAHITI : Mar 17. First noted as a 2 kHz het on 740 (see below). Strong Progresso slop/QRM, but a possible // on 25 metres during a brief comedy segment when they were playing a series of "Woody-Woodpecker" laughs. Gone by 0800. Weak signal (detected with zero-beat) at other times before and since. Too late for Barcelona-738. Very tentative only! Similar to receptions two years back, so something is definitely there. Needs more work!! Hhhmmm?? ... Maybe Cedric? With Dave's 600 metre wires..... HI! (FUNKENHAUSER)

740 CUBA, Radio Progresso : Mar 17, from 0649. SPANISH. Strong het from 738 noted at 0730. Good with CBL off. Progresso music and talk variety—880 //. (FUNKENHAUSER)

750t VENEZUELA, YVKS, Radio Caracas, Caracas : Mar 28, 0249. SPANISH. Poor with WSB. Man announcer, North American Rock with electronic sounds atop the music. I thought it might be Radio Sandino, but it peaked on SSE direction. (FUNKENHAUSER)

770 COLOMBIA, HJJX, RCN, Bogota : Mar 4, 0827, 0827. SPANISH. Poor-fair in a WABC null. Up-beat Latin music, at times dominating. ID on the half hour as "R-C-N". (CHANDLER)

Apr 12, 0433. SPANISH. With WABC and a possible second Latin. "Futbol" segment between 0436 and 0450. An on-the-spot police news report by a man mentioned 2 killings with names and "los organismos de coca" in context. "R-C-N" ID at 0449 and 0459. ID with 5 Beep TC "en Colombia!" at 0500. (FUNKENHAUSER)

780 COLOMBIA, HJZW, Radio Almirante, Riohacha : Mar 6, 0155. Poor in a WBBM null. SPANISH. "Futbol", I.D. at 0216 and into Latin music. (CHANDLER)

870t COLOMBIA, Mar Caribe : Mar 28, 0319. Poor, weak QRM from WWL gospel program. SPANISH. Latin music, fast talking man announcer. Punctuated "Colombia!" announcement with the rest drowned out by a WWL station break at 0358. (FUNKENHAUSER)

920 UNID, Possible two Latins. Mar 17, 0716. SPANISH. Two of them battling it out with a North American. Fluttery vocals and obscured announcements. (FUNKENHAUSER)

940 MEXICO, XEQ, Mexico : Mar 2, 0817. Very good with CBM off. SPANISH. IDs like "La Super Q" and "La grande diablo (devil?) de Mexico", with ads for a brand of burritos then music. (COADY)

980 COSTA RICA, TIRI, Radio Impacto, San Pedro : Mar 6, 0245. Poor-fair. SPANISH. Latin pops and easy listening with "Impacto!" IDs. (Heard in // on 5044.) (COADY)

1000 MEXICO, XELRN, "Radio Mil-Nucleo Radio", Mexico : Mar 17, 0625. Fair — no sign of Chicago. SPANISH. Easy listening Latin vocals and light music. ID at 0627 as ".... Un classico! (string of XE calls including XELRM! Nucleo Radio Mil!". Frequent "Radio Mil", "Nucleo Radio" announcements over music with a 4 note tone.

Also (tentative) on Apr 12, 0416 during good conditions to Mexico with similar music format. A scan of XEQR (1030) and XEEP (1060) showed them with poor-fair signals while XEQ (940) was booming in with music, and ID jingles. (FUNKENHAUSER)

1025 UNID Latin : Apr 12, 0507. SPANISH. Man with brief news items to 0510, into a vocal sung by a woman. Very poor with slop and soon faded. Smatterings of talk again at 0541. Nothing listed here for Latin America but definite signal which I could zero beat each time I went back. Heard last year also. (FUNKENHAUSER)

1030 HAITI, 4VEH, Radio Station 4VEH, Cap-Haitien : Mar 6, 2300. Poor at first then fair with WBZ. ENGLISH. "Auld Lang Syne" bell IS and spoken ID. ID again at 2340 and hymns. (COADY) (The bells was probably the first few bars of "Amazing Grace" - wf.)

1100 ANTIGUA, ZDK, Magic Radio : Mar 13, 0420. ENGLISH. Poor-fair. Soft vocals (Lionel Ritchie), mention of "Good morning to St. Kitts-Nevis and Barbuda". ID as "We wrote the book on music on the Magic." Sign-off with "What a wonderful world" at 0505.(CHANDLER)

1100 COLOMBIA, HJSA, CARACOL, Barranquilla : Mar 17, 0446. Poor.SPANISH. Caught briefly with "CARACOL" ID then into a talk by a male announcer. (CHANDLER)

1110t MEXICO, XERED, Radio Cadena Nacional, Mexico : Mar 28, 0339. SPANISH. Latin/North American romantic ballads. Man with several "La Voz Musica Romantica" announcements. Possible mention of "Radio Cadena Nacional" at 0343. (FUNKENHAUSER)

1170 COLOMBIA, HJNW, CARACOL, Cartagena : Apr 12, 0516-0528. SPANISH. Man reading news - mainly Colombian, but one mentioned Colombian/Venezuelan "cooperacion...traffico de coca..". 0528 ID as "Las noticias Caracol del dia en Cartagena!" (FUNKENHAUSER)

1180 DOMINICAN REPUBLIC, HIBE, Radio Mil, Santo Domingo : SPANISH. Mar 10, 0451. Poor. Latin ballads, "Radio Mil" ID at 0457, then sign-off with Dominican National Anthem. (CHANDLER)

CONTRIBUTORS

Bob CHANDLER, Toronto
Kenwood R-5000 with Radio West Loop

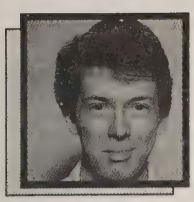
Mark COADY, Toronto
SONY 2010, 1 M & 1 ft Air-Core Loops

Cedric MARSHALL, Newmarket
Lots of equipment and miles of wire

Yours truly, Guelph
Icom R71A, 1 M Air-Core Loop; 75 ft N/S longwire. ◆

"Keep up the good work, these 2 column pages, sure are easier on the eyes, the print is a lot clearer now too." - Joe Said, London

"This is truly a very valuable magazine and the staff is doing a remarkable job in preparing this publication." - Hensley Alexander, Orangeville



Andrew W. Reid
R.R. 7
Peterborough, Ontario
K9J 6X8

SWL/DX PROGRAMMES

The following programmes offer information on DX news, receiver reviews, radio features, tuning tips, propagation, satellites, computers and radio theory. Different programmes are aired once a week with repeats, except Radio Budapest Calling DX'ers which has two different programmes per week.

Local Day/
UTC *Programme*, Station, Frequencies

MONDAY

1235 *Radio World* BRT International 17555
0130 *Calling DXers...* R. Budapest 9835, 11910
0200 *DX Party Line* HCJB 9745,15155
0213 %*RBI DX Club* Radio Berlin International 11785, 15125 fortnightly
0328 %*RBI DX Club* Radio Berlin International 11785, 15125 fortnightly
0600 *DX Party Line* HCJB 9745,11795,15155
% *RBI DX Club* also at 2213, 0013, 0128, 0258, 0413 fortnightly

TUESDAY

1115 *Waveguide* BBC World Service 9515, 11775, 21660, 25750
1233 *SWL Digest* Radio Canada International 9635, 11855, 17820
1542 *Sweden Calling DXers* Radio Sweden 17880, 21500
2230 *World of Radio* R.for Peace Int'l 13660, 21566
0130 *Calling DXers...* R. Budapest 9835, 11910
0200 *World of Radio* R.for Peace Int'l 13660, 21566
0242 *Sweden Calling DXers* Radio Sweden 9695, 11705, 15295

WEDNESDAY

2215 *DX Pgme for Radio Amateurs* Radio Sofia 11680, 15330
2345 *DX Pgme for Radio Amateurs* Radio Sofia 11680, 15330
0130 *Waveguide* BBC World Service 5975, 6175, 7325, 9590, 9915, 12095, 15260
0200 *Ham Radio Today* HCJB 9745,15155
0345 *DX Pgme for Radio Amateurs* Radio Sofia 11735
0600 *Ham Radio Today* HCJB 9745, 15155
0752 *Media Network* R. Netherlands 9630, 9715

THURSDAY

1052 * *Media Network* R. Netherlands 6020,11890
2300 *World of Radio* WRNO 13720
0030 *World of Radio* WRNO 7355
0052 * *Media Network* Radio Netherlands 6020, 6165, 15315
0130 *Calling DXers...* R. Budapest 9835, 11910
0352 * *Media Network* R. Netherlands 6165, 9590
* *Media Network* also at 1452, 1652, 1852, 2052

FRIDAY

2045 *DX Pgme for Radio Amateurs* Radio Sofia 11660, 15330
2330 *World of Radio* R. f. Peace Int'l 13660,21566
2330 *DX Pgme for Radio Amateurs* Radio Sofia 11680, 15330
0130 *Calling DXers...* R. Budapest 9835, 11910
0300 *World of Radio* WRNO 6185

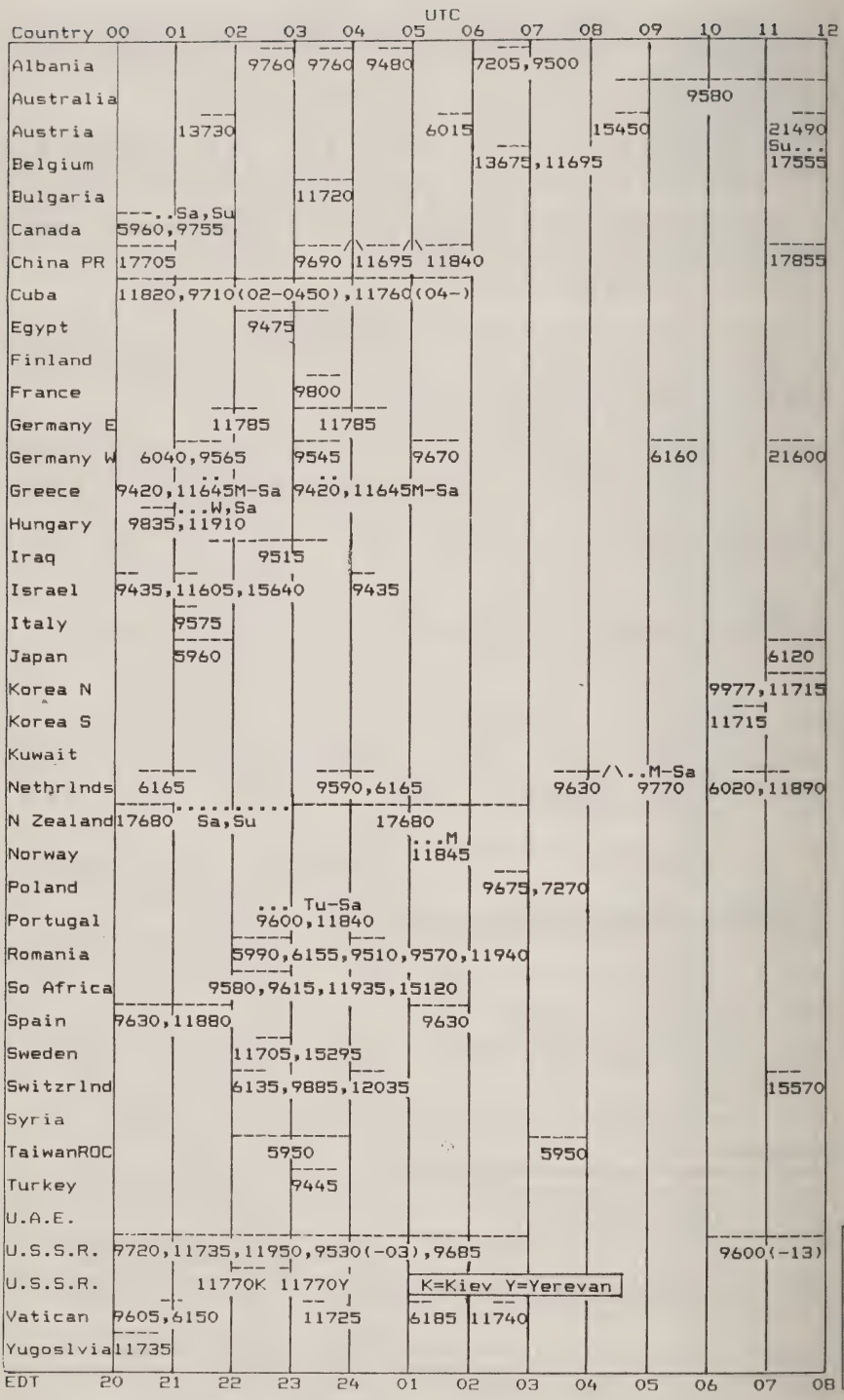
SATURDAY

1000 *Pacific DX Magazine* KTWR 11805
1130 *Bonaire Wavelengths* Trans World Radio 11815, 15345
1236 *Radio World* BRT International 17555
2110 + *Communications World* VOA 11760, 15205,15410, 15580, 15600, 17785, 17800
2220 *DX Corner* Voice of Turkey 9445 fortnightly
2330 *World of Radio* WRNO 13720
2336 *Radio World* BRT International 9925
2337 *SWL Digest* RCI 5960, 9755
0035 # *DXers Unlimited* R. Habana Cuba 11820
0110 + *Communications World* VOA 5995, 6130, 9455, 9775, 9815, 11580
0215 @ *Swiss SW Merry-Go-Round* S.R.I. 6135, 9885,12035, 17730
0235 # *DXers Unlimited* R. Habana Cuba 11820
0330 *Bonaire Wavelengths* Trans World Radio 9535, 11930
0320 *DX Corner* Voice of Turkey 9445 fortnightly
0415 @ *Swiss SW Merry-Go-Round* S.R.I. 6135, 9725, 9885, 12035
0750 *Waveguide* BBC World Service 9640
+ *Communications World* also at 1010, 1210, 1710
@ *Swiss Shortwave Merry-Go-Round* also at 1345, 1545, 2115
#*DXers Unlimited* also at 0435, 0635

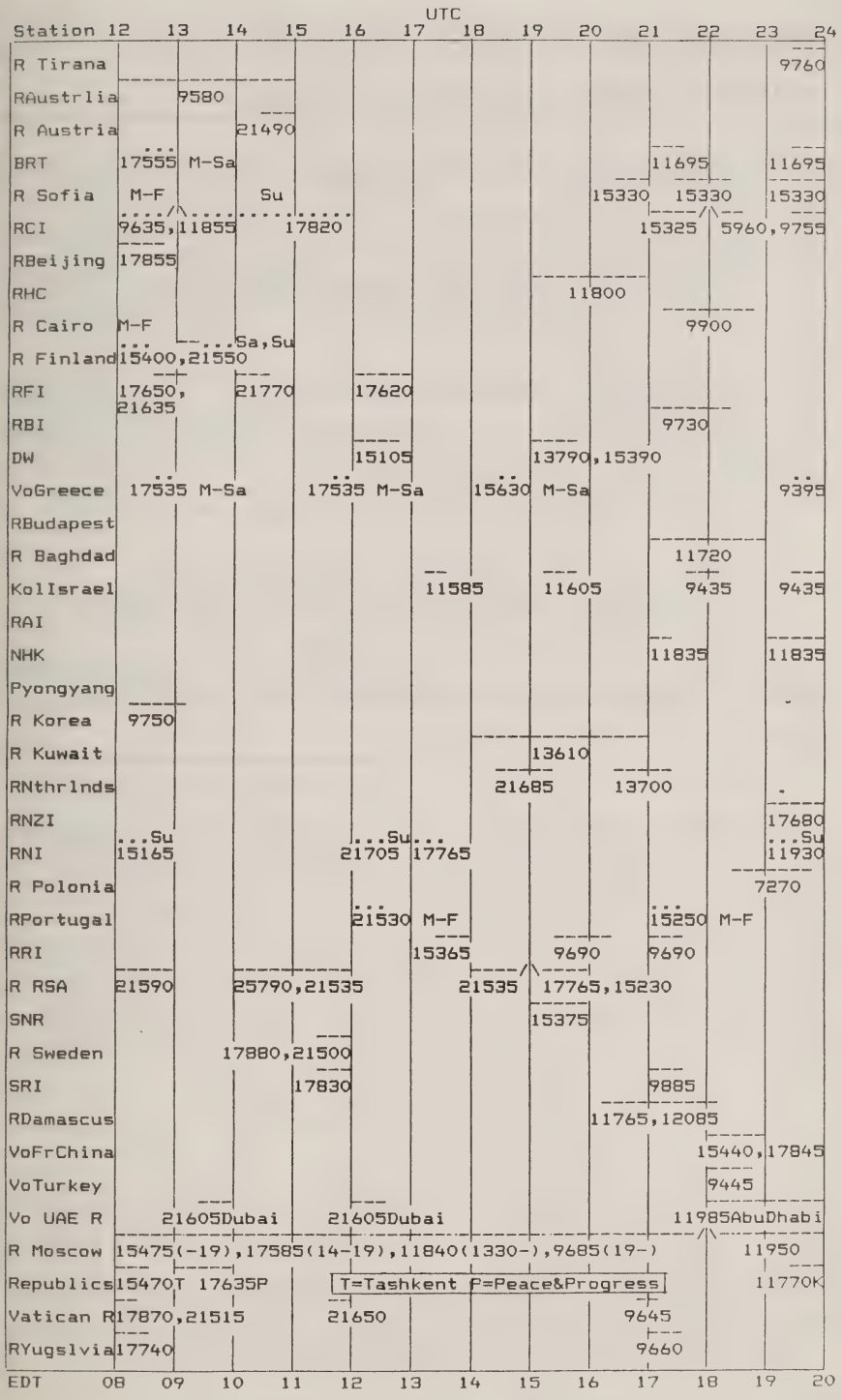
SUNDAY

1030 *Communicator* Radio Australia 9580
1135 *Austrian Shortwave Panorama* R.Austria Int'l 21490
1300 *Shortwave Feedback* Radio Korea 9750
1400 *ANARC SWL Ham Net* KW3F 7240 SSB
1430 *Communicator* Radio Australia 9580
1435 *Austrian Shortwave Panorama* R.Austria Int'l 21490
1837 *SWL Digest* RCI 13670, 15260, 17820
1925 *DX Corner* Kol Israel 11605, 15640
1935 *DX Spot* Spanish National Radio 15375
2030 *World of Radio* WRNO 15420
2137 *SWL Digest* RCI 15325
2155 *DX Corner* Kol Israel 11605, 15640
2215 *DX Pgme for Radio Amateurs* Radio Sofia 11680, 15330
2307 *SWL Digest* RCI 13670, 15260, 17820
2325 *DX Corner* Kol Israel 9435, 11605, 15640
2345 *DX Pgme for Radio Amateurs* Radio Sofia 11680, 15330
0035 *DX Spot* Spanish Nat'l Radio 9630, 11880
0130 *DX Corner* Radio Japan 5960
0135 *DX Spot* Spanish Nat'l Radio 9630, 11880
0345 *DX Pgme for Radio Amateurs* Radio Sofia 11735
0530 *Waveguide* BBC World Service 5975, 9640
0535 *DX Spot* Spanish National Radio 9630

Thanks to Mike Stone and Dave Harrison for their contributions. Good Listening!



Ivan Grishin, 1079 Moorelands Crescent, Pickering, Ont. L1W 3K3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5960,9755
RBeijing
17855
RHC
11800
R Cairo
M-F
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R Finland
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13790,15390
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17535 M-Sa
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17880,21500
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11985AbuDhabi
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15475(-19),17585(14-19),11840(1330-),9685(19-)
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EDT 08 09 10 11 12 13 14 15 16 17 18 19 20

USA ENGLISH SURVEY

Ivan Grishin, 1079 Moorelands Crescent, Pickering L1W 3K3

	UTC 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
VoA	5995					6035						11915		9760				15580,15410,17785						
KNLS										11715						11715 Tu-Su								
KUSW		11695		9815		6175			6135 Su					9850 Su			15590				15590			15580
KVOH	17775																					17775		
WCSN	9850						9840								21780		21640				13770			15300
WHRI			7315				6100							9465		21840							13760	
WHRI					9495					7355			11790		15105		11790 15105				17830			
WINB																	15295				15185			15145
WMLK					9465 Su-F													9465 Su-F						
WRNO		7355		6185														15420						13720
WSHB	9410			9455						13760				9495	17555						13770			9465
WWCR	15690		7520																					
WYFR		5985			6065								5950							13695				5985
EDT	8pm	9	10	11	12	1am	2	3	4	5	6	7	8	9	10	11	12	1pm	2	3	4	5	6	7

Some of these stations may be heard for short periods in other languages.
KUSW broadcasts continuously from 1145 Sat. to 2400 Sun., then off until 1630 Mon.

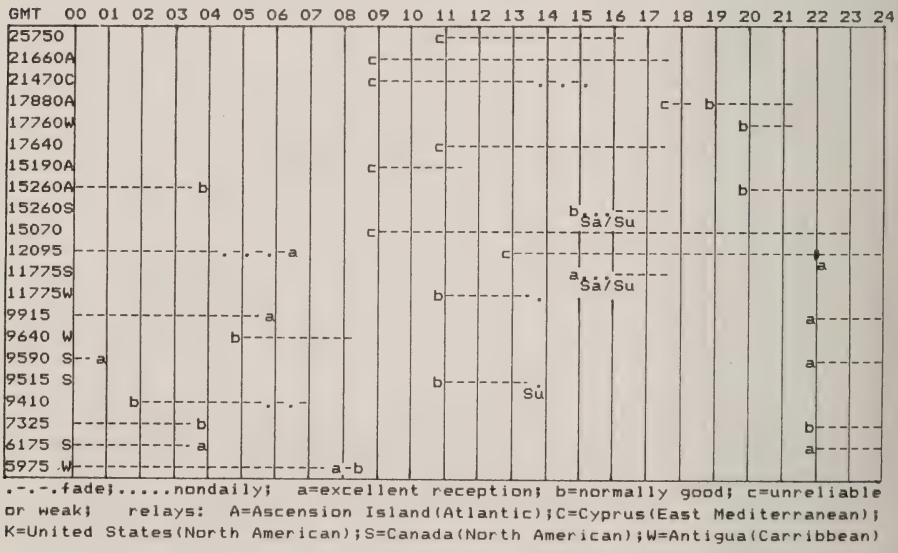
Daily
Non-daily

Your Guide to American Shortwave Stations

Government : The Voice of America (VoA)
Religion : KNLS, KVOH, WHRI, WINB, WMLK, WWCR, WYFR.
Rock Music : KUSW, WRNO. (Religious programming is aired at times.)
Christian Science Monitor stations (News Mon-Fri, Religion Sat&Sun) : WCSN, WSHB

BBC WORLD SERVICE

Andrew W. Reid, R.R. 7, Peterborough K9J 6X8



.-.-.fade};.....nondaily; a=excellent reception; b=normally good; c=unreliable or weak; relays: A=Ascension Island(Atlantic);C=Cyprus(East Mediterranean); K=United States(North American);S=Canada(North American);W=Antigua(Carribbean)

Thanks to Ron Clinton for his input.

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MONITORING SERVICES

This column is devoted to the subject of utility stations. A utility station being a non-broadcast station which is NOT directing its transmissions to the general public. Loggings, articles and QSL reports related to such stations in the 10 to 520 kHz and 1.6 to 30 MHz ranges covering Voice, CW, RTTY and Facsimile stations are included in this column.

Next Deadline For Reports:.....Friday April 27th

Welcome to another exciting column this month. Reception conditions really took a turn the week of March 18th. Reception conditions from Asia were the best they have been for some time now, while signals from Europe and South America were attenuated somewhat. Conditions returned back to normal on March 26th.

The publishing schedule for the June bulletin has been advanced by one week.

I have added a new feature starting with this months column.It is the Question Corner. You may send in your questions and I will provide an answer.

VOICE

4464.5 Massachusetts Civil Air Patrol (CAP) Net in USB at 0040 with Freedom 101 Mobile as Net Control taking additional check-ins. Zig Zag 56 and Northeast 10 were also heard. Mar 15 (MCs)

6840.0 UNID station (possibly EZI ISRAEL) in USB with "Echo Zulu India" repeated a number of times, then "Group 12" given twice, followed by letters (Golf, Bravo, Alpha, Uniform.....) "End of message". "Repeat". Then repeated again from Group 12. "End of message". " End of transmission". YL had an affected English accent. Fair 0203 Feb 11 (MA)

6840.0 UNID numbers station in AM with a YL reading 2 and 3 number groups in English at 2300. Good Feb 12 (MA)

6963.0 UNID numbers station in AM with a YL reading 2 and 3 number groups in English at 0100. Good Feb 13 (MA)

7315.0 US Army Mars Net in LSB with AAV5QT and other stations with general operations (taking check-ins, passing traffic). All stations Good to Very Good Feb 25 (MCs)

7360.0 US Army Mars Net (possibly Ohio) in USB with check-ins including stations AAR5XM, AAT5MR, AAT5KX etc. at 1703. All stations heard with Very Good signals. Mar 5 (MCs)

7383.5 US Army Mars Net in USB designated "1X14C" with two male operators with general QSO about packet radio at 1916. All stations Good to Very Good. Mar 4 (MCs)

7605.0 UNID station (possibly VLB2, ISRAEL) in AM repeating "Victor Lima Bravo Two" over and over by a YL from 0514-0556. Fair Dec 20 Also 0241-0252 Dec 21. (MA)

7846.0 UNID numbers station in AM with a YL reading 5 number groups in Spanish at 0100. Good Feb 13 (MA)

8055.0 UNID numbers station with YL in AM reading a numbers transmission in Spanish at 0540. Excellent Feb 4 (RI)

13826.0 US Navy Mars Net in USB with NNN0COZ USS Forrestal (CV-59, Ed) working NNN0FMN (Affiliate Mars station) at 2212 while setting up phone patches for crew. Good Feb 27. USS Forrestal is an aircraft carrier commissioned in 1957 with 90 aircraft aboard and a crew of 5500 sailors. (SC)

14398.0 VOA ISB Feeder (Reserve) Delano, California, UNITED STATES in USB sending "Nightline Africa". At 1630 they had News in English. On LSB there was, an UNID language with much discussion of Contras and Sandinistas in Nicaragua. Poor Feb 27 (SC)

14435.0 CNR Rabat, MOROCCO in USB calling YWH3 VENEZUELA at 1530 with no response. Fair Feb 2 (RI)

14441.0 NNN0PWZ US Navy/Marine Mars Net in USB with stations trying to set up a phone patch but the other station was having trouble, yet PWZ had a Fair signal at 1623. Net off at 1626. Feb 27 (SC)

20560.0 KB2XLP Pasadena, California, UNITED STATES in USB working an UNID station with business related traffic in USB at 1827. Poor Feb 9 (RI)

20565.0 10VE9LHM David Dunlap Observatory, Richmond Hill, Ontario, CANADA working an UNID station in Chile with radio telescope adjustments in USB at 2104. Note that the call sign isn't a typo, it was copied exactly as it was given! Excellent Feb 16 (RI)

20995.0 UNID station in USB with a male operator giving directions in Spanish "Easy, easy, a little to the right, you're doing fine..." in USB at 1842. Fair Feb 9 (RI)

AIR TO GROUND

5616.0 American 70 in USB working Gander, Newfoundland, CANADA at 0308. Mar 9 (MAC)

6676.0 Sydney, AUSTRALIA in USB with a Volmet report at 0933. Mar 1 (MAC)

6679.0 Auckland, NEW ZEALAND in USB with a Volmet report at 1052. Mar 13 (MAC)

6730.0 Air Force One in USB working Andrews AFB Maryland, UNITED STATES carrying President Bush back from Columbia. Feb 13 (ES) (No time listed, Ed)

8855.0 Porto Velho, BRAZIL ATC in USB working an UNID aircraft in Portugese at 0432. Fair to Good Mar 8 (DG)

8864.0 MAC19757 in USB working New York Radio, New York, UNITED STATES at 0136 with a emergency request for FL370 and a direct route back to McGuire AFB. An attempt at mid-air refuelling had failed and they did not have enough fuel to complete their mission. They had to explain their predicament several times before New York understood the severity of their predicament. Mar 6 (MAC)

11300.0 Addis Ababa, ETHIOPIA in USB clearing Mogadishu, SOMALIA at 0452. Good Mar 8 (DG)

11300.0 Nairobi ATC, KENYA with a YL clearing "Addis" ATC at 0504. Fair Mar 8 (DG)

11395.0 Lufthansa 468 working New York Control with a radio check-in in USB at 1801. Excellent Feb 10 (RI)

25227.0 Air Force Two in USB working Andrews AFB, Maryland, UNITED STATES with phonepatch traffic at 2144. Phone patch was terminated at 2157. Both stations were Good to Excellent. Mar 15 (DR)

SHIP TO SHORE

8746.8 WOM Miami, Florida, UNITED STATES in USB working M/V Petra (Bulk Tanker) with a duplex phonepatch on 8222.9 at 0305. Mar 9 (MAC)

16365.0 UNID vessel in USB giving location as 41 North, 51 West and discussing where to place water markers at 0026. Fair Feb 24 (RI)

22000.0 Vessel Encounter Bay in USB relaying a message for an UNID vessel to the Harbour Master. The Somerville and Lizzie 3 were mentioned as well. Fair signals at 1719. Mar 4 (MCs)

22015.0 Vessel KIGP working WOM in USB with a phonepatch request to Norwegian Steamship Lines, Colorado at 1850. Good Feb 9 (RI)

22135.0 Vessel Fancy Free WYA4664 in USB working an UNID Coast Station reporting slight leaking in forward hatch while enroute to Puerto Rico at 1703. Fair Feb 11 (RI)

CW

2754.5 CKN Vancouver Radio, British Columbia, CANADA sending a "VVV DE CKN" marker at 0911. Fair Mar 4 (SC)

5406.0 UNID station sending coded 5 letter groups at 0235. Fair to Good Mar 9 (DR)

8187.0 UNID station sending coded 5 letter groups at 1010. Very Good Feb 22 (SC)

8449.3 8PO Barbados Radio, BARBADOS sending a "DE 8PO" marker at 1024. Poor Feb 22 (SC)

8544.0 OMP Prague, CZECHOSLOVAKIA

with a DE marker at 0600. Fair Mar 13 (DG)

8610.0 UXN Arkhangelsk, USSR with a DE marker at 0419. Fair Mar 3 (DG)

10869.0 UNID station sending 16 sets of alphanumeric groups: "MRL, J55, FFU, VTC, J6U" etc. Off at 1615 and into a high speed data burst. Back to CW alphanumeric groups (different groups) at 1630. Fair Mar 4 (SC)

12729.0 UVA (UNID station) USSR caught at end of a marker saying "QSX 12601" at 0508. Fair Mar 4 (DG)

12970.5 PKB Belawan, SUMATRA with a CQ marker at 0013. (Usually PKX Djakarta is here) Poor Mar 8 (DG)

13550.0 ZKLF Auckland Meteo, NEW ZEALAND with a CQ marker then with a weather broadcast at 0500. Mar 18 (DG)

13655.0 NMO Honolulu, HAWAII with NAVAREA warnings at 0315. Mar 8 (MAC)

16912.5 UKA Vladivostok, USSR with a CQ marker at 0300. Good Mar 10 (DG)

16951.5 6WW Dakar, SENEGAL with a "VVV DE 6WW" marker at 0001. Mar 15 (JL)

16959.1 FUM Papeete, TAHITI with a "VVV DE FUM" continuous marker at 0004. Mar 15 (JL)

17034.0 XSW Kaohsiung, TAIWAN with a CQ marker at 0310. Fair Mar 10 (DG)

17042.3 JCU Choisi, JAPAN with a "CQ CQ CE DE JCU JCU JCU QSX 16 MHZ K" marker repeated at 0114. Mar 15 (JL)

22404.0 OXZ Lyngby Radio, DENMARK with a CQ marker at 1729. Mar 15 (JL)

22407.3 GKC Portishead Radio, ENGLAND with a DE marker at 1737. Mar 15 (JL)

22425.2 LGW Rogaland Radio, NORWAY with a "CW DE LGW/LGU/LGB/LGJ/LGX/LFX /LFG/LFR/LFZ marker at 1745. Mar 15 (JL)

22446.1 EAD6 Aranjeuz Radio, SPAIN with a DE marker at 1750. Mar 15 (JL)

22448.5 GKB5 Portishead Radio, ENGLAND with a DE marker at 1753. Mar 15 (JL)

22471.3 SVD Athens Radio, GREECE with a DE marker at 25-30 wpm at 1759. Mar 15 (JL)

22473.1 LFG Rogaland Radio, NORWAY with a "LGG/LFX/LFG" marker at 1800. (Too much interference to get more information) Mar 15 (JL)

22476.0 DAM Norddeich Radio, GERMAN FED. REP with a DE marker at 1803. Mar 15 (JL)

22515.5 DAN Norddeich Radio, GERMAN FED. REP with a DE marker at 1827. Mar 15 (JL)

TACTICAL

8105.0 Hammer calling Whirlwind a number of times with no response in USB at 0515. Possibly a drug enforcement operation. Poor Feb 16 (RI)

8825.0 CANFORCE 864 working Gander Radio with a radio check in USB at 1900. Good Feb 9 (RI)

9879.0 PREFERENCE in USB working an UNID station at 1804 with "This is PREFERENCE, understand, going back to CW". Both stations Fair to Good Mar 11 (DR)

11265.0 USN Atlantic Net with 8 Lima Zulu working 5 Romeo Quebec in USB with confirmation request regarding RTTY transmission on another channel at 1437. Good Feb 9 (RI)

11270.0 USN Atlantic Net with 4 Juliet Romeo working 7 Charlie Quebec and 4 India Tango with coded alpha traffic in USB at 0402. Good Feb 10 (RI)

14405.0 USAF Mars Net with AFA3PR working AFA6PF with radio check and transmitter adjustments in USB at 1729. Fair Feb 10 (RI)

14385.0 CFARS Net with CIW8103 HMCS Fraser DDH233 working CIW823 Dartmouth, Nova Scotia, CANADA with personal message handling in USB at 2026. Good Feb 25 (RI)

14445.0 CFARS Net with CIW8116 HMCS Preserver AOR510 working CIW801 Fredericton, New Brunswick, CANADA and CIW824 Dartmouth, Nova Scotia, CANADA with phonepatch requests at 1910. The Preserver is currently on operations in the South Atlantic. Excellent Feb 9 (RI)

14465.0 US Navy Mars with NNN0NAL USS Abraham Lincoln CVN72 (Nuclear Aircraft Carrier, Ed) working NNN0ZTI Virginia Beach, Virginia, UNITED STATES in USB with phonepatch requests at 1955. The Abraham Lincoln is one of the newest additions to the USN fleet. Excellent Feb 28 (RI)

14470.0 US Navy Mars with NNN0CMB USNS Truett FF1095 (Frigate, Ed) working NNN0PRS Richmond, Virginia, UNITED STATES in USB with phonepatches and personal message

handling at 0009. Excellent Feb 10 (RI)

14483.5 US Navy Mars Net in USB with various ship to shore phone patches at 2119. ID's given were NNXX, CUZ and XPQ. Good Feb 12 (MA)

20885.0 US Military Advisory Group OAE21 Lima, PERU working AHF4 Howard AFB, PANAMA in USB with diplomatic traffic at 2045. Good Feb 16 (RI)

20970.0 CFARS Net with VXN9 Nicosia, CYPRUS working VEV9 Valcartier, QUEBEC and CIW91 Lahr, GERMAN FED. REP. working CIW605 Navan, Ontario in USB at 1732. Excellent Feb 1 (RI)

RTTY

518.0 US and Canadian Coast Guards using Sitor B on this frequency with messages re unlit buoys etc at 0020. Feb 12 (ES)

3229.5 KAWN Offut AFB Nebraska, UNITED STATES 75/850 sending coded meteo weather data at 0917. Very Good Mar 4 (SC)

3254.3 UNID station ARQ-E 72/400 idling at 0047. Good Jan 17 (ES)

4173.0 UNID station 50/170 sending telexes in Cyrillic at 0316. "Radio Gwana" was used in one message header. Translated it means "Havana Radio". Stan wonders if this could be the Russian Embassy in Havana. Off at 0320. Good Mar 5 (SC)

4272.5 CFH Halifax Radio, Nova Scotia, CANADA 75/850 sending weather forecasts for Puerto Rico and the US Virgin Islands at 0933. At 0934 a coastal marine weather correction was sent (from the National Weather Service, San Juan, Puerto Rico). At 0936 a temporary weather capsule of International cities was sent. A great deal of this weather data came from KWBC, the National Meteo/ Communications Center in Washington, DC. Good Mar 4 (SC)

4352.0 SPB21 Sczcecin, POLAND Sitor B with ship traffic at 0322. Mar 6 (ES)

4354.5 WLO Mobile Radio, Alabama, UNITED STATES Sitor B sending a list of operating frequencies; ITU channels, Ship receiving and transmitting channels at 0947. Good Mar 4 (SC)

5376.5 OST28 Ostend, BELGIUM Sitor B with a traffic list and then football scores for the Netherlands at 1608. Feb 4 (ES)

5430.0 RUM45 Tashkent, USSR 50/500 with coded meteo at 1251. Jan 5 (ES)

5456.7 UNID station ARQ-E3 192/350 idling at 0203. This was my first ever reception in E3 with 192 baud. Jan 4 (ES)

5474.0 CSY Santa Maria, AZORES 50/875 with a RYRY de CSY tape at 0337. Jan 5 (ES)

5792.5 UNID station ARQ-E3 idling at 0346. Good Dec 13 (ES)

5830.0 UNID station ARQ-E3 idling at 0241. Jan 5 (ES)

6254.0 UNID station 50/170 sending telexes and traffic lists in Cyrillic at 0307. Good Mar 5 (SC)

7402.5 JMG3 Tokyo, JAPAN with coded meteo at 1306. Jan 8 (ES)

7868.0 UNID station ARQ-M2 96/350 idling at 0325. Jan 19 (ES)

8045.0 FSB INTERPOL Paris, FRANCE Sitor A idling at 0028. ID'd by CW tape. Jan 18 (ES)

8152.0 HMF86 Pyongyang, NORTH KOREA 50/500 with News in possible Korean at 1233. Jan 8 (ES)

8310.5 Vessel Juan Selcano EBCB 100/850 sending foxes, Count, 6464 and SGSG tape at 0328. At 0330 a great deal of telexes all of which were in Spanish about tourist visas, buses, hotel reservations were sent. The vessel then sent a "BBXX" weather report. "BBXX" is the meteo symbol for a Synoptic weather report sent from a ship. At 0343 the RTTY operator came back and said "OK" and "TU" a total of 8 times each, then "QRU" was sent 12 times. Then changed over to USB mode. Good Mar 5 (SC)

8655.0 UNID station 50/170 sending weather forecasts and data in Cyrillic at 1038. Mentioned Odessa a couple of times. Good Feb 22 (SC)

9195.0 UNID station ARQ-E3 48/400 at 0316. This could also be Mauritius. The Klingenfuss quarterly report shows them on this frequency but running in ARQ-E. Mar 6 (ES) (See 9378.5 Ed)

9323.5 RPTI Ponta Delgada, AZORES 75/815 with a Foxes de RPTI tape at 0355. Jan 5 (ES)

9378.5 3BZ Plaisance, MAURITIUS ARQ-E3 48/850 with two short weather messages, then gave "ETA FIMP" (FIMP is the location indicator for Plaisance Air, Mauritius) at 0306. The Klingenfuss quarterly report shows ARQ-E but they were definitely running E3 when I received them. Mar 5 (ES)

9420.0 XVB50 Hanoi, VIETNAM 50/500 with a RYRY and "de Hanoi testing with Peking" at 1301. Jan 9 (ES)

10412.0 RFFXL Beirut, LEBANON ARQ-E 72/400 using the XZL circuit identifier with a Controle de Voie message followed by a RYRY and a Le Brick test tape at 0040. Jan 4 (ES)

10805.0 Buenos Aires, ARGENTINA 75/850 with Noticias Argentinas News in Spanish at 0006. Mar 8 (MAC)

10893.5 LRB39 Buenos Aires, ARGENTINA 50/850 with Telam News in Spanish at 2359. Mar 7 (MAC)

10972.0 VOA Tangiers, MOROCCO 75/425 with USIA News in English at 0019. (MAC)

11461.0 5UA Niamey, NIGER ARQ-M2 96/800 transmitting coded meteo on channels AA and AB with the NOA and NOB circuit identifiers respectively. Jan 19 (ES)*(AA and AB indicate the M7000 is in the automatic channel search mode and in this case found traffic on both channels A and B , Ed)*

11543.4 7OC Khormaksar Air, YEMEN P.D.R. 50/425 with an RYRY DE 7OC tape at 0110. Fair Mar 24 (DR)

11621.5 UNID station ARQ-M2 96/350 idling at 1930. Jan 6 (ES)

11994.3 UNID station ARQ-E3 48/170 idling at 0227. Fair Mar 7 (DR)

12223.5 VOA Tangiers, MOROCCO 75/425 with USIA News in English at 2348. Mar 7 (MAC)

12247.6 UNID station (possibly HZN, Jeddah, SAUDI ARABIA) 50/850 with coded meteo data at 1558. Fair Mar 25 (DR)

12265.0 BZR62 Beijing, CHINA 75/425 sending XNA News in English at 1645. Poor Mar 4 (SC)

12295.0 VCS838 Ottawa, Ontario, CANADA 75/525 with Yugoslavian Embassy traffic at 1422. Mar 9 (MAC)

12499.5 UNID Russian vessel 50/170 working UQK Riga Radio, Latvian SSR sneding telexes and weather data in Cyrillic at 0017. Fair Mar 4 (SC)

12506.0 UNID Russian vessel 50/170 working UKA Vladivostok Radio, USSR sending a position report and some weather data in Cyrillic at 0027. Good Mar 4 (SC)

12508.0 Russian M/V Walariaw Kujby 50/170 working UKX Nakhodka Radio, USSR on 13088 kHz sending telexes in Cyrillic at 1656. At 1705 telexes were sent to Leningrad. At 1715 a traffic list came from Murmansk Radio. Then at 1725 a message to Kapita W. Kulik was sent from Odessa Radio in Cyrillic on 12508 kHz also. Off at 1733. What is this channel? I thought it was a ship working frequency with QSX 13088 kHz. Could it be that two Russian stations were operating on the same frequency or was the original station relaying messages? Fair Mar 4 (SC) (The original station was relaying messages, Ed)

12509.0 M/V Ochmistrz SQIU Sitor A sending shipping data such as ETA, Fuel on board etc in Polish to an UNID coast station at 1034. Off at 1040. Fair Mar 5 (SC)

12513.5 M/V Marchen Aersk OWDQ Sitor A sending a telex to "Metin DK" about its status at sea, wind direction, height of sea swells etc. in English at 1750. Good Mar 4 (SC)

12520.0 UNID Cypriot M/V C4YL Sitor A sending a cargo list at 1043. Gave an ETA of boarding of pilots in English. Good Mar 5 (SC)

12522.0 M/V Narvshll Zaliv EWFU 50/170 sending RY's calling URB2 Klaipeda Radio, Lithuanian SSR with no answer at 1843. There was no answer because URB2 was on 12524.5 kHz this date. Good Mar 4 (SC)

12522.5 UNID vessel 50/170 sending a message in Cyrillic refering to Odessa Radio as "ODS". Sending what appeared to be crew telexes. Gave addresses and street names such as "Lenin Prospect". Off at 1747. Fair Mar 4 (SC)

12524.0 M/V Stepan Razine UBLX 50/170 sending RY's then calling UMV Murmansk Radio, USSR with no answer at 1859. Good Mar 4 (SC)

12524.5 M/V Taroussa EREJ 50/170 sending RY's then called URB2 Klaipeda Radio, Lithuanian SSR at 2342. URB2 came back and started giving a weather forecast for Murmansk. Looks like the vessel was bound for Murmansk from the Baltic Sea. At 2353 more RY's were sent as M/V Lensovet UPLO was calling UFB Odessa Radio, USSR. Weather summaries in Cyrillic followed. It appears that UFB Odessa Radio and URB2 Klaipeda Radio share this channel. Off at 0003. Good Mar 4 (SC)

13010.0 UDK2 Murmansk Radio 50/170 sending weather data in Cyrillic at 2021. At 2038 sent a list of different Russian M/V, type of cargo, tonnage etc., all in Cyrillic. Sent telexes at 2044. Heavy CW splatter from WNU on 13011, otherwise Good.

Mar 5 (SC)

13081.0 NMO Honolulu, HAWAII Sitor B with "CQ de NMO United States Coast Guard Honolulu" at 0331. Mar 4 (ES)

13105.0 URB2 Klaipeda Radio, USSR 50/170 sending RY's then 8 lines of: "CC DE URB2 URB2 16714 16714" at 2057. Good Mar 5 (SC)

13360.7 GPA5 Portishead Radio, ENGLAND Sitor A sending an ARQ phasing signal with a CW ID at 2110. Good Mar 5 (SC)

13391.3 ADN Berlin, GERMAN DEM. REP. 50/425 sending ADN News in French at 2115. I could not find a call sign for this station in my reference material. Good Mar 5 (SC) (My reference material shows the call sign as Y2V, Ed)

13580.2 HMK25 Pyongyang, NORTH KOREA 50/330 with KCNA News in English at 2139. A great deal mentioned of a Conference in Christshaven, Denmark that North Korea was attending. Poor to Fair Mar 5 (SC)

13870.0 9UA Usumbura, BURUNDI 50/425 with coded meteo at 1900. Jan 18 (ES)

14429.0 UNID station Sitor A sending an ARQ phasing signal at 2020. Finally at 2046 the station sent " I lay ue Choseok Termine - ?8/0/3". Lubumbashi, Zaire is listed on this channel in CFL7. Fair Mar 9 (SC)

14356.0 Bracknell, ENGLAND 50/400 with coded meteo at 1219. Jan 7 (ES)

14469.0 RFTJD Libreville, GABON ARQ-E 72/850 using the JDA circuit identifier with a Controle de Voie message at 0010. Dec 14 (ES)

14517.0 UNID station 50/850 with News in English at 1232. Possibly TASS. Dec 18 (ES)

14698.9 YIX70 Baghdad, IRAQ 50/300 with News in Arabic at 1400. Jan 23 (ES)

14873.4 RPFNN Portugese Military station, UNID location 50/850 with a Quick Brown Fox Count DE RPFNN tape at 2129. Fair to Good Mar 18 (DR)

14923.0 BAP44 Beijing, CHINA 75/1000 with a RYRY and QRA de BAP44 tape at 0154. Dec 15 (ES)

15048.5 UNID station ARQ-M2 idling at 0019. Fair Mar 29 (DR)

16086.0 RFVI French Forces Le Port REUNION ISLAND ARQ-M2 sending a "Controle de Voie to RFFA" message at 2005. Good Feb 18 (SC)

16111.1 HBD20 Berne, SWITZERLAND Sitor A with News items in French and German at 1259. Mar 6 (ES)

16224.0 3MA35 Taipei, TAIWAN 50/850 sending CNA News in English at 1536. Good Feb 27 (SC)

16265.0 9VF201 SINGAPORE 50/850 with a RYRY and "Singapore Telecom relaying ANSA Press" tape at 1705. Jan 20 (ES)

16668.0 M/V Fiora ELDY9 Sitor A working an UNID shore station with a telex message at 2040 re the arrival at a certain port (name not given) weather permitting. The telex gave the location of the vessel in latitude and longitude. Speed, etc. Good Feb 18 (SC)

16669.0 M/V Marit Maersk OZFC Sitor A working OXZ Lyngby Radio, Denmark on 17206 kHz at 1546. Vessel sent a telex of the slight icing of side containers and deck, also telex said ETA was unchanged. The message was being sent to "Halop". Fair Feb 27 (SC)

16678.0 M/V Glasgow Sitor A working GKP6 Portishead Radio, England at 2035. The telex to the vessel contained a discussion by the captain as to why there is no 3rd officer on board ship. Looks like he had quit at some port on the voyage. Good Mar 6 (SC)

16681.0 M/V C.S. Iris GVIA Sitor A working GKY6 Portishead Radio, England with a telex mentioning that staff will be busy unloading the ship and no time will be available for training the crew at 1608. The telex went on to say that they needed parts for the forward watertight door, also the crane driver is needed to assist with the davit repairs. Good Feb 27 (SC)

16684.0 M/V Framura IMLK Sitor A working an UNID coast station at 1601. The vessel sent a telex to Scanports ZUG, and gave a position of 30.2 N and 46.8 W as well as temperature. Stated ETA Ravenna. Fair Feb 27 (SC)

16698.0 UNID station Sitor A sending personal telexes. I translated one telex using the Soviet RTTY Dictionary. The telex was addressed to someone named "Nidos". It said: "You married during the day, I wish you strong health". Other telexes were signed: "Rimas" which in Lithuanian means Raymond. Good Mar 6 (SC)

17015.0 UJQ Kiev, USSR 50/170 with News in Cyrillic at 1658. Jan 9 (ES)

17229.5 YUR Rijeka, YUGOSLAVIA Sitor A idling at 1353. Feb 2 (ES)

17511.4 UNID station 75/85 with VOA Associated Press News in English at 0007. This is part of a VFT signal. Fair to Good Mar 14 (DR)

18164.3 STK Khartoum Air, SUDAN 50/425 with an "RYRY.... DE STK STK STK" tape at 2100. Fair Mar 31 (DR)

18032.6 UNID station ARQ-M2 96/200 idling at 0314. Jan 9 (ES)

18190.0 FSB INTERPOL Paris, FRANCE Sitor A idling at 1249. ID'd by CW tape. Mar 2 (ES)

18270.5 HBD20 Berne, SWITZERLAND Sitor A idling at 1339. ID'd by CW tape. Jan 14 (ES)

18386.4 UNID station 50/425 using the LSA circuit identifier with coded meteo data at 2253. Good Mar 5 (DR)

18387.5 UNID station 50/425 with News in English at 1432. Fair with flutter Mar 18 (DR)

18640.0 9KT356 Huban, KUWAIT with KUNA News in English at 1408. Mar 9 (MAC)

19127.0 RMC21 Moscow, USSR 50/400 with News in Portugese at 1215. Jan 21 (ES)

19234.9 RWW70 Moscow, USSR 50/800 with News in French at 1353. Jan 12 (ES)

19390.0 Y7A75 Berlin, GERMAN DEM. REP. 50/400 with a RYRY tape at 1217. Jan 20 (ES)

19405.0 AYA INTERPOL Buenos Aires, ARGENTINA Sitor A with a long coded message at 1335. Mar 7 (ES)

19438.5 LOR Buenos Aires, ARGENTINA 75/170 with weather in Spanish at 2115. Poor Dec 15 (ES)

19821.5 4UZ Geneva, SWITZERLAND Sitor A with messages in English destined for Khartoum and New York at 1722. Jan 8 (ES)

19888.5 UNID station ARQ-M2 96/170 idling at 0151. I would guess this would be a station in Chile, as they are the only ones who seem to run 170 shift in ARQ. Feb 11 (ES)

20112.1 CLP1 MFA Havana, CUBA 50/850 with a Prensaminrex bulletin in Spanish at 2218. Good Mar 24 (DR)

20286.5 SPW Warsaw, POLAND Sitor B with a list of calling frequencies at 1352. Jan 23 (ES)

20731.5 HDN Quito, ECUADOR 75/850 with a RYRY and Foxes tape at 1845. Jan 7 (ES)

22193.0 M/V Australian Venture VJAV Sitor A working GKE7 Portishead Radio, England on 22562 kHz at 1550. The vessel sent a list of engine parts on board of a mooring winch. Then they listed parts needed as a back up to be picked up in Australia. Fair Mar 8 (SC)

22204.0 M/V Saadiarv UVIF 50/170 sending a telex in Cyrillic at 1626. Signed off at 1630 with: "73 SK DE UVIF". M/V Stanislav Monyouchko UHIF came on at 1634 with RY's and called UTA Tallin Radio Estonian SSR. The vessel sent a short telex in Cyrillic and was off at 1636. Fair Mar 8 (SC)

22212.5 M/V Vassilii Polenov USCW 50/170 working UFB Odessa Radio, USSR on 22582 kHz at 1606. The vessel was requesting "Kiew Pogada". This was a request for Kiev weather in Cyrillic. This was followed by 5 number groups. The station signed off the last two paragraphs with "USCW 08121 USCW 08061. Off at 1611. Good Mar 8 (SC)

22582.0 UFN Novorossiysk, USSR Sitor A with ship traffic at 1511. ID'd by CW tape. Mar 7 (ES)

22592.5 UFN Novorossiysk, USSR Sitor A with ship traffic at 1314. Mar 7 (ES)

22958.0 UNID station 100/320 with ADN News in German at 1549. Jan 28 (ES)

25017.9 59OSB UNID Spanish Naval Unit 100/850 calling 57YTR with an "RYRY SGSG" tape at 2242. Fair Mar 6 (DR)

25086.3 URB2 Klaipeda, USSR 50/170 with a RYRY tape and four figure coded messages at 1324. Feb 3 (ES)

25127.0 UJY Kaliningrad, USSR 50/170 with a RYRY de UJY tape at 1419. Jan 19 (ES)

25134.9 AME3 Madrid, SPAIN 100/850 with messages in Spanish "ADIRDO to UMLAR" at 1532. No doubt the Spanish Navy. Feb 18 (ES)

25315.0 RPFN Lisbon, PORTUGAL 50/850 with a Foxes, RYRY and test RPFN tape at 1312. Jan 30 (ES)

26206.9 DFZG Belgrade, YUGOSLAVIA 75/400 with a RYRY tape then coded traffic at 1506. Feb 10 (ES)

26158.0 UJY Kaliningrad, USSR 50/170 with a RYRY de UJY tape at 1348. Jan 19 (ES)

26490.0 UNID station ARQ-M2 96/800 idling at 1331. Dec 12 (ES)

FACSIMILE

25480.0 UNID station 120/576 with a weather chart at 2130. Text on map read: "NOGAYE PREI SFC MAR 90". Fair to Good Mar 14 (DR)

CONTRIBUTOR & LOCATION		RECEIVING EQUIPMENT
Matt Anderson Mississauga	(MA)	Kenwood R5000, Realistic DX400, Code Star decoder, 12' wire antenna.
Robert Ing Toronto	(RI)	Sony ICFPro80, 108" vertical whip antenna.
Eric Sillick Don Mills	(ES)	Japan Radio NRD525, Sony ICF2010, Universal M7000 Communications Terminal, Eavesdropper and 65' wire antennas.
Stan Cepukas Wingham	(SC)	Kenwood R5000, Drake SSR1, Realistic DX400, Info Tech M600A, Info Tech M6000, Info Tech M605 and 60' inverted "V" antenna.
Mark Coady Toronto	(MAC)	Sony ICF2010, Magnavox D2999, Hal CWR6750 Tel ereader,Heathkit SB614 tuning scope, Yaesu FRT7700 antenna tuner and 60' wire and 120m loaded windom antennas.
John Lindsay Baden	(JL)	Japan Radio NRD525, MFJ 1278 and 100' longwire antenna.
Dan Greenall London	(DG)	Panasonic RF3100 and longwire antenna.
Mike Csorbay Canfield	(MCs)	Sony ICF2010, 150' longwire antenna.
David Ross Hamilton	(DR)	Drake R7, Universal M7000 Communications Terminal, Info Tech M610 RTTY Tuning Scope, Datong FL3 audio filter, 50' inverted "L" antenna.

QUESTION CORNER

This months question comes from Stan Cepukas. Stan asks: *"Since I got the M6000 version 6 (Info Tech M6000v6 CW/RTTY decoder, Ed), I've been trying to decode TDM, ARQ-E and ARQ-E3" ."I have used the M6000 manual to a "T" and still haven't decoded one of those modes" ."I was wondering if I was overlooking something very simple"."I just don't know, or is the case every station TDM, ARQ-E and ARQ-E3 modes that I've tried to decode, been running synchronization pulses"* ? It is as you last guessed. TDM, (ARQ-M2, Ed) ARQ-E and ARQ-E3 stations are a new form of RTTY that are primarily used by the French Military Forces worldwide. The other users are Embassy concerns. ARQ-M2, ARQ-E and ARQ-E3 RTTY are comprised of multi-channel systems that transmit a steady stream of synchronization pulses continuously (roughly 99% of the time) on all the channels and transmit traffic only when traffic has to be passed. The audio signal of these three RTTY modes sound the same whether the station is "idling" or whether the station is actually transmitting traffic. This can be very frustrating or perplexing for the newcomer or inexperienced listener who first tries to tune these forms of RTTY and is unable to get a clear printout on their video monitor or printer. These three new RTTY modes are more complex than the standard Baudot RTTY and are harder to decode due to the multi-channel network that each employs. The best way to monitor TDM, ARQ-E and ARQ-E3 stations is to tune into the synchronization pulses and go and find something else to do. Come back every 15 minutes or so and check the video monitor to see if any traffic has been passed. I have found that this practice works very well. I would recommend using the frequencies in the RTTY logging section in this column to become familiar with what each sounds like and after a short period of time you should be able to distinguish one from the other with a little practice and familiarization. A more detailed and technical explanation of these three as well as other forms of RTTY can be found in the Klingenfuss Radioteletype Code Manual.

If you have a question(s) that you would like answered, please send them to the address in the masthead and I will provide an answer in a future column.If you would like a more detailed explanation than I can provide in this space, please enclose a SASE. ◆

John Fisher
47 Nicholson Crescent
Amhertsview, Ontario
K7N 1W9

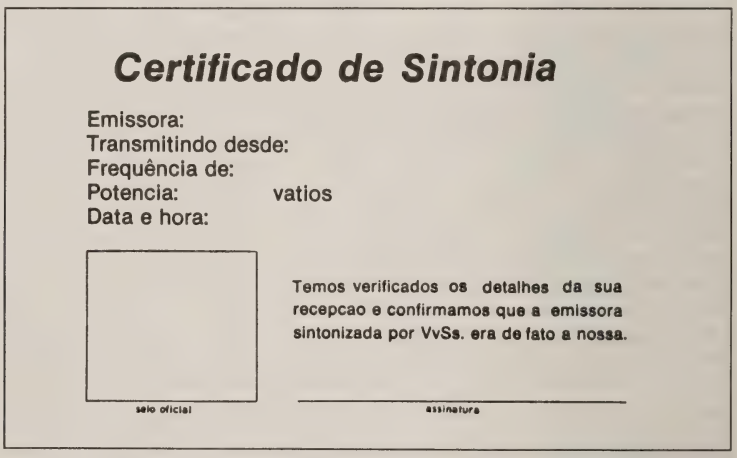
QSL ALBUM

Since the early days of radio, many stations have sent out colourful cards and letters to listeners in response to their reports of reception. The QSL Album tells you which verifications have been received by our members.

There are many different types of QSL's that radio stations will send to a listener in reply to a correct reception report. By far the most common type of QSL is that sent by most international stations, the postcard style QSL. It usually consists of a postcard scene on one side with report details listed on the other. Many of these can be quite beautiful and are very attractive when displayed in a photo album. A variation of this type of QSL is the logo type of card where the station's logo or insignia is prominently displayed on the card
with the details either on the front or the back. Of course, many stations send out verification letters. This is less expensive for the station to prepare than picture postcards, and is the form of verification often used by small stations who only send out a few QSL's.

Another type of QSL that is sometimes seen in the pages in the QSL Album, is the prepared card. With the prepared card the listener does most of the work and thus it makes it a little easier for the station to reply to a report. Since you have sent the station the card, all that they have to do is to fill in the blanks with the appropriate time, date, frequency etc., drop it into the mail and be done with the whole exercise. While nothing can beat the excitment of receiving the station's own card or letter on the station's letterhead, a prepared card is sometimes the only way that a station will reply, and thus some DX'ers will only use it as a last resort.

There are many different forms of prepared cards. They can range from something as simple as a plain postcard sized piece of cardboard with the appropriate information typed on the card (personally, I don't like this type; it just doesn't look nice!), commercially printed cards in the language of the station, to custom designed cards that a printer prepares just for you. Prepared cards are available in English, French, Spanish and Portuguese from Bill Plum (who also handles foreign mint stamps). Drop Bill a line at 12 Glenn Road, Flemington, New Jersey 08822 to obtain current prices.



Certificado de Sintonia

Emissora:
Transmitindo desde:
Frequência de:
Potencia: vatios
Data e hora:

selo oficial

Temos verificados os detalhes da sua recepcao e confirmamos que a emissora sintonizada por VvSs. era de fato a nossa.

assinatura

Pictured here is an example of a Spanish prepared card.

continued on the next page

A record number of 20 reporters this month (including first time contributors Cindy Morgan, Philip Akin, Robert Schurko and Chuck Roswell of Trans World Radio, Bonaire) have provided us with an overflowing column and have forced me to cut out a few reports to keep the column length manageable. I know that this is the most reporters that the QSL Album has ever had, and it may be the most for any DX Ontario column. Keep up the fine work, your support is appreciated! ◆

ABU DHABI Voice of the UAE 13605 full data folder and schedule in 2 months, v/s Ahmed A. Shouly, Director (Milczyn). same folder in 28 days for some Canadian stamps (Schurko).

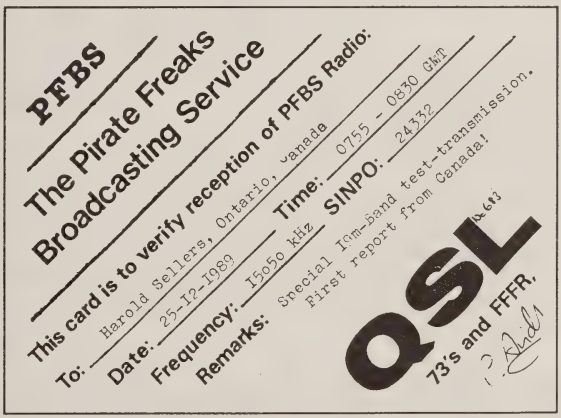
ALASKA KNLS 7365 "Snow Covered Station" card, small pennant, frequency schedule, "The Food Newsletter" and personal note from Beverly Jones at the Follow-Up Office in Franklin, Tennessee in 4 weeks (Morgan)

ALBANIA Radio Tirana 9760 "View of Apolonia" card, sked, lapel pin, picture card and folder about Skampa Hotel in 30 days for mint stamps (Roberge)

ARGENTINA RAE 11710 full data card, report form, program sked and personal note in 65 days, v/s Silvana Licciardi, English Team (Walker)

ARMENIAN SSR Radio Yerevan 7400 full data plain paper card and thank-you note in 3 months (Milczyn). same and many postcards in 3 months (J.Fisher)

ASCENSION ISLAND BBC Relay 15400 full data letter with transmitter info in 51 days direct from Neil Johnson for the Resident Engineer at the relay station (R.Fisher)


PFBS
The Pirate Freaks Broadcasting Service
This card is to verify reception of PFBS Radio:
To: Harold Sellers, Ontario, Canada
Date: 25-12-1989
Time: 0755 - 0830 GMT
Frequency: 15050 kHz
SINPO: 24332
Remarks: Special 16m-band test-transmission. First report from Canada!
QSL
73's and FFFR,

AUSTRALIA Radio Australia 6020 via Brandon "Wilderness of the Outback" card in 1 month after telephone call (!) (Kusalik).

AUSTRIA Radio Austria Int'l 21490 "Traditional Costumes- Salsberg" card, sked and labels in 14 days for IRC (Akin)

BELGIUM BRT 21815 "St. John's Baptist Church" card and sticker in 95 days (Humenyk). 9925 "La Vierge & L'Enfant" card in 38 days (Akin)

BRAZIL Radio Bras 11745 Xeroxed QSL, sked and sticker in 63 days for IRC (Akin)

BULGARIA Radio Sofia 7115 card, sked, New Years card and info on Bronze Diploma in 5 weeks to 44 days for IRC (Akin; Jansons). 9700 card, sked and report form in 65 days (Walker)

CANADA Radio Japan relay 5960 no data card, newspaper, report form and program schedule in 24 days (R. Fisher)

CKZU 6160 "CBC Center in Vancouver" card in 18 days for SASE (returned), v/s Dave Newberry (Coady)

CUBA Radio Habana 11820 full data card, "Gramma" newspaper and tote bag in 109 days for mint stamps (Roberge)

ECUADOR HCJB 15155; 17890 "Logo" and "Pifo Antenna" cards (from 1977 series), report form and pamphlet in 20 and 35 days (Walker)

EGYPT Radio Cairo 9475 full data "Photo of Cairo" card and sked in 89 days for mint stamps (Roberge). card, sked and sticker in 44 days (Hanington). 9655 "Cairo TV Building" card, pocket calendar, sticker and program schedule in 3 years for 2 reports and 2 follow-ups. They listed their address as P.O. Box 566, Cairo, which is different from the WRTH address (Schurko).

EUROPIRATES Radio Orang Utan (Netherlands) 6206 card, QSL sheet, stickers and

personal letter in 1 month for 2 IRC's, v/s "Freddy" (Ross)

Weekend Music Radio (Scotland) 6309.6; 15043 2 cards, station info updates for Christmas broadcast in 2 months for $1 US, v/s Jack Russell (Ross)

Radio Stella Int'l (Ireland) 6320 "Red Deer Fawn" postcard, 3 page info packet in 18 days for $1 US (D'Angelo)

PFBS, Pirate Freaks Broadcasting Service (Netherlands) 15050 yellow card #683, stickers and info sheet in 43 days for special Christmas Day broadcast. Noted that mine was first report from Canada, and that they use 10 watts of power (Sellers)...*exceptional catch, Harold...jcf (QSL pictured on previous page)*

GERMAN DEMOCRATIC REPUBLIC RBI 15125 "Haupstadt" QSL card, "Peace" card, sked, calendar in 91 days for IRC (Akin). 11785 & 15125 "Karl-Marx Stadt" card in 21 days for IRC (Carson) 9730 "Grid Detector" card in 24 days (Humenyk)

GREECE Voice of Greece 7430 "Meteora Monastery" card in 3 weeks (Milczyn)

GUAM KTWR 11650 "Studio" card, sked in 41 days for 3 IRC's, used stamps, v/s Sandy Damick (Hanington)

HUNGARY Radio Budapest 9835 full data blue card, post cards, sked and pennant in 49 days for Xmas card, SWL card and used Canadian stamps (Hanington). 9585 "Millenary Monument" card in 36 days (Humenyk)

INDIA All India Radio 11620; 15020 no data "Taj Mahal" card, sked and bumper stickers in 49 days for SWL card, 2 IRC's (Hanington). 11620 full data "Velha Goa: Main Altar" card in 7 months, v/s Ramhlili, Audience Research Officer (Humenyk)

JAPAN Radio Japan no data "Prehistoric Clay Figures" card, Radio Japan news, skeds and report form in 1 month for IRC (Jansons)

RADIO JORDAN
P.O. Box : 909 Amman
Telex : 21285 HBS JO

JORDAN Radio Jordan 9560 full data card, frequency schedule and program sked in 11 months after a follow-up report (Schurko)

KIRIBATI Radio Kiribati 14917.7 "Native Dancing" card in 3 months for $1 US (Ross)

KOREA, SOUTH Radio Korea 9750 "Daybreak" card, report forms, sked in 29 days for SWL card and used Canadian stamps (Hanington). 15575 "English Service Group Photo" card, March Listeners Forum and song sheet in 43 days for IRC (Carson)

KOREA, DEM. PEOPLES REPUBLIC Radio Pyongyang 15115 full data card, calendar, program sked, cloth flag and book in 2.5 months. Report sent/received via my US address (Walker)

MADAGASCAR Radio Nederland relay 15560 "Astronaut" card, sked and calendar in 29 days for IRC (Hanington)

MALI Radio Beijing relay 11715 full data "Horse" card in 26 days (Coady)

MALTA Voice of the Mediterranean 9765 "Harbour Scene" card in 112 days for $1 (Kusalik)...*this one has not been reported much recently...jcf*

MONGOLIA Home Service 4863 via Sainshand, 4750 via Uligii prepared cards, Radio Ulan Bator QSL and sked in 50 days for $1, v/s N. Boldmaan, Mail Editor (Kusalik)

NETHERLANDS Radio Nederland 13700 "Outside Broadcast Van" card, sticker, calendar and RN Service Catalog in 23 days for IRC (Carson). 17605 "De Magereburg Across the Amstel" card in 4 months (Humenyk).

NETHERLANDS ANTILLES Trans World Radio 9535; 11930 "Bonaire House" card, signed staff photo, sked, info pamphlet and personal note in 3 weeks for IRC, v/s Kristin Shaw (Milczyn). same card, New Years card with note on back from Sally Rork, English sked and station info in 30 days (McKenna).

NEW ZEALAND Radio New Zealand International 17680 "Lake Taupo" (near the new Rangitaiki transmitter site) card #113 and info on the new transmitter in less than 3 weeks (Morgan). same card (#98) in 35 days for 4 IRC's (Carson) card #171 in 39 days (D'Angelo). "RNZI Flag" cards with sites indicated for reports on Titahi Bay and Rangitaiki transmitters in 19 days for 3 IRC's (Kusalik) *see QSL pictured on next page*

NIGERIA Voice of Nigeria 7255 "Martula Muhammed International Airport" card in 5 months for some Canadian stamps (Schurko)

PORTUGAL Radio Portugal Int'l 9600 full data "Explorer's Map" card, pennant, stickers, sked, Christmas card and tourist brochure in 6 months (Milczyn). 9705 "Boat" card, sked and pennant in 97 days (Roberge). 9600 same card, key ring, sked and stickers in 19 days for IRC, SWL card and used stamps. Also stated that a record of Portuguese folk music was on its way (Hanington)

SOUTH AFRICA Radio RSA 21535 "Flame Lily" card, frequency list and sked in 25 days for mint stamps (Roberge). 9615 "Johannesburg" card, sked in 19 days (Akin). 11935 card, frequency sked and program guide in 23 days (R.Fisher)

Radio Oranje 3215 verie letter from v/s Hennie Klopper, Chief Announcer, sked and coverage map in 47 days for SWL card and used stamps (Hanington)

SPAIN Spanish National Radio 9630 full data Spanish card, pennant, sticker, program sked and report form in 99 days (R. Fisher)

Radio Beijing relay 9690 full data "Horse" card in 26 days (Coady)

SULAWESI (INDONESIA) RKPDT2 Luwu 3654 prepared cards in 22 months after 2 Indonesian follow-ups and $1, v/s John Ibrahim, Pimpinan Studio. Then 2 weeks later received a verie letter with staion info signed by Arman Mailangkay (Kusalik)

SWITZERLAND SRI 6190 "Berne" card and sked in 16 days (Akin). 12035; 9885; 6135 same card in 16 days for IRC (Hanington). 6135 full data card in 23 days (R.Fisher)

TURKEY TRT 9445 full data card, brochure, programme schedule, pennant and stickers in 68 days (Humenyk)

UKRAINIAN SSR Radio Moscow 7290 via Lvov "Arbat Square" and "Frienship Fountain" cards, World Service schedule and Soviet stamps in 98 days (Carson). 15135 via Vinnitsa "Moscow State University" card in 98 days (Carson).

UNITED STATES WHRI 9495 full data "Globe/Logo" card, report form, program sked and station history in 5 months, v/s Loren Holycross, Engineering (Humenyk)

KUSW 15650 full data card in 58 days, v/s Sheryl Shaefer (Hanington)

WWCR 15690 frequency only "Globe" card, program schedule and travel brochure in 8 months, v/s Jay Litton (Schurko)

VOA Bethany 9585 full data color picture of old Crosley xmtrs at Bethany for special Nov. 7 broadcast when these units were shutdown. Also received cloth patch, sked and report forms in 112 days (Sellers)

USA PIRATE WENJ 7416.4 paper photocopy card in 11 days from v/s Jack Beane for telephone report (Hanington)

WKND 6240 "Howling Dog" card, info sheet and personal note in 4 months for $1 US, v/s Radio Animal (Milczyn)

Hope Radio Int'l partial data info sheet in 40 days for report to Slanesville, WV, v/s Jamie, Chief Operating Officer (Zeller)

Pirate Radio UK via East Coast Pirate Radio card sized sheet in 51 days for report to Baltimore address, v/s N. Tesla, Chief Engineer, (Zeller)

Pirate Radio Network ful data blue "PRN/ Radio Clandestine" sheet in 220 days for report to Kingston, NY, v/s R.F.Burns (Zeller)

WLAR 7415 full data handtyped index card in 25 days to 5 weeks for report to Wellsvile,

NY with mint stamps, v/s Director of Engineering (J.Fisher; Zeller; Ross)

WRNR full data postcard of Hudson River in 114 days via Slanesville, WV, v/s "Bob" (Zeller). same in 1 month via Box 32, Cornwall on Hudson, NY (Ross)

Radio Mexico International 7425 computer generated sheet (#7) in 2 months via Slanesville for mint stamps (Ross)

East Coast Pirate Radio 15045 green paper QSL #10 in 2 months for mint stamps, v/s N. Tesla (Ross)

VIETNAM Voice of Vietnam 15010 paper card in 6 months (Ross)

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CLANDESTINE Radio Libertas, Croatian Committee For Human Rights, via WHRI, 11790 "Radio Libertas Logo" card with sked in Croatian and letter with station info in 5 days to 5 weeks (Sellers, J.Fisher)

La Voz de la Fundacion 9950 vis Radio Clarin, Dominican Rep. prepared card, QSL sheet and bumper sticker in 1.5 months for mint stamps from Amoska Perez, Box 440069, Miami, FL 33144 (Ross). 7395; 9495 via WHRI same in 34 days (D'Angelo)

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QSL NEWS

NETHERLANDS ANTILLES Chuck Roswell, the host of Bonaire Wavelengths on Trans World Radio, sent a nice letter which included samples of this years TWR-Bonaire QSL's. Each card is a drawing of some aspect of Bonaire and a new card will be issued in each quarter.

1stQ - Typical Bonaire House
2ndQ - Willemstoren Lighthouse
3rdQ - Divi-Divi Tree
4thQ - Underwater Scene

Next year's QSL's will be color photographic views of some of the prominent "Dutch style" buildings on Bonaire. If your report does not have all of the necessary information to obtain a QSL, TWR sends a letter outlining which additinal information is required. This is nice gesture which I'm sure helps the newcomer to QSL'ing, who might otherwise never receive a reply and not know what he needs to include to improve his reports. Keep up the good work, TWR (Chuck Roswell, Bonaire)

USA Herald Broadcasting stations (WCSN/WSHB/KHBI) are once again sending QSLs. As announced April 6th on their "Letterbox" program, the latest mailing from the Christian Science MOnitor World Service includes blank QSL cards for each of the stations. DXers simply complete the cards, mail them to C.S.M. and they will have their transmitter sites confirm the reports and return the cards to you. The ODXA also has a quantity of these new QSLs, so if you didn't receive them, contact club HQ, sending a self-addressed and stamped envelope. (Harold Sellers)

USSR Soviet postage stamps are available to help you get replies from Soviet local stations. Chances are whatever you receive from a Soviet broadcaster which does not have an external service is the result of the goodwill of a certain person at the station (see Robert Ross's reports last month). Stamps are available for US$1 per airmail stamp or US$1 for 2 seamail sets from : Igor Sannikov, ul. Oparina 6, kv.37, Kirov 610008, USSR (Sannikov, OZ DX, March 1990)

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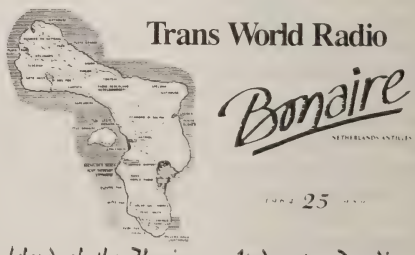
CONTRIBUTORS

Philip Akin, Toronto,ON; Mark Coady, Toronto,ON; John Carson, Norman,OK; Richard D'Angelo, Wyomissing,PA; John Fisher, Amherstview,ON; Rob Fisher, Belleville,ON; Dan Hanington, Shallow Lake,ON; Mark Humenyk, Weston,ON; Karlis Jansons, Willowdale,ON; Ed Kusalik, Coaldale,AB; Dave McKenna, London,ON; Wes Milczyn, Toronto,ON; Cindy Morgan, Whitevale,ON; James Roberge, Valleyfield,PQ; Robert Ross, London,ON; Chuck Roswell, BONAIRE; Robert Schurko, Sudbury,ON; Harold Sellers, Newmarket,ON; Robert Walker, Wixom,MI; George Zeller, Cleveland, OH



the CPRV page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

JERRY BERG, *Chairperson* • 38 Eastern Ave. • Lexington, MA 02173 • (617) 861-8481

JQAK & JDY
Sohome Shotokugai, Dairen,
Kwantung Leased Territory.

Mr. R. Daneker

Dear Sir,

With many thanks we have received your kind letter dated February 28.

The JDY Short Radio Station commenced its operation on the 16th, July 1937 with a view to establishing the standpoint of both Japan and Manchoukuo which aim at overthrowing the Chiang regime which has been resisting Japan in collusion with Communists, and (2) to creating a new order conducive to cooperation with the Chinese people.

With the data mentioned above, the Station has been on the air under the management of the JQAK Broadcasting Station, concurrently operating two standard broadcasting station: One is on the air for the Japanese people, the other for the Manchus.

The details of the JDY Station are as follows:
Frequency----------9925KC(30.2 met.)
Power----------10KW.
Daily program by GMT:
12.00----------Music & news in both Japanese and Manchou.
12.45----------News in English for 15 minutes.

Checking up your report with our Station Log., we have the pleasure to verify your reception of our transmission ( ).

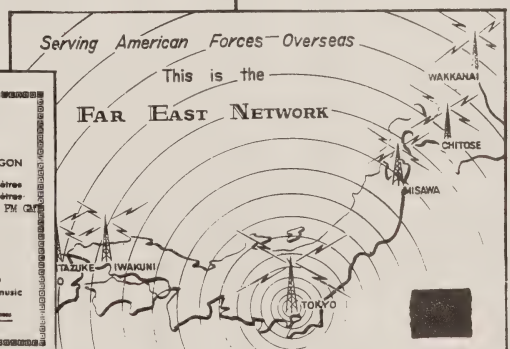
We should be very much pleased if you would kindly tell your friends about our broadcasting.

We earnestly hope that all listeners will understand the existing position of both Japan and Manchoukuo.

Yours sincerely,
K. Hurata
K. Kohei Hurata
Director
JQAK & JDY Radio Station
Dairen

Some Asian echoes this month. At left, a QSL letter from station JDY in Dairen, the Kwantung Peninsula, then part of Japanese occupied Manchukuo (now Lu-ta, China). The station was often reported at 0900-1000 UTC, the last 15 minutes with English news. (Sorry this isn't a clearer repro, but it is actually a little better than the original.) +++ At bottom left, a veri from Radio Saigon from 1939, when the French were still running the show. +++ And at the right, a card of FEN-Tokyo from earlier days when it was more widely heard than it is today.

RADIO - SAIGON
Boîte Postale 412 — SAIGON (Indochine Française)
Nous avons le plaisir de confirmer votre réception des
We are pleased to verify your reception of
transmettant sur 11.780 kcs. 25,46 mètres
broadcasting on i. e. mètres
le 19 à le 15th Dec. 19 39 at 3.45 PM GMT
RADIO SAIGON
LA VOIX DE LA FRANCE EN EXTRÊME-ORIENT
THE VOICE OF FRANCE IN THE FAR EAST
10.45 to 11.15 a. m. News and music
3.00 to 4.00 p. m.
6 116 kcs. 49.05 mètres.
11.780 kcs. 25.46 mètres.
1000 kcs. 300. mètres.



CPRV offers stickers that you can place on your QSL albums, expressing the wish that your QSL's be donated to the Committee when the time comes. It is not final and binding--you can change your mind any time. For more info, send a business size (No. 10) self-addressed stamped envelope to CPRV Registered Collections Coordinator John C. Herkimer, P.O. Box 54, Caledonia, NY 14423.

A Committee of the Association of North American Radio Clubs

David M. Clark
R.R. # 3
Newmarket, Ontario
L3Y 4W1 CompuServe 71311,2677

WORLD RADIO REPORT

World Radio Report is a column intended to supplement the International and Tropical Bands Loggings columns, bringing you news of operating changes and station developments on the SWBC bands. Schedule and frequency changes affecting English broadcasts of major stations readily heard in North America are normally excluded - refer to World English Survey and the USA English and BBC World Service surveys to be found in the centre pages of the magazine. Propagation news and features are sometimes presented too. Contributions are welcome from all members.

PROPAGATION NEWS

Last month I took a shot at putting together a table of solar and geomagnetic data for the month of February, based on info retrieved from the SESC Bulletin Board which I've mentioned in this column several times. Refer to the discussion in the April column for comments concerning some of my own reception experiences in February in relation to the record of solar and geomagnetic activity. (On the next page, you will find the corresponding data for March-1990.)

Unfortunately, Harold and I got our signals crossed in terms of formatting on our Desktop Publishing System when I downloaded the column to him over the phone and you saw the result in last month's column! Let's try that again...here we go:

SOLAR / GEOMAGNETIC DATA FOR FEBRUARY, 1990

Date Feb'90	Sunspot Number	Solar Flux	Boulder 'A' Index	Boulder 'K' Index 00	03	06	09	12	15	18	21
28	270	229	26	3	5	5	3	4	4	3	3
27	288	228	18	3	3	4	4	4	3	3	2
26	282	218	18	3	3	2	4	4	3	3	4
25	297	224	23	4	5	3	4	4	3	3	3
24	384	232	23	5	4	4	3	3	3	4	3
23	278	219	29	4	2	4	4	5	5	4	4
22	248	217	na	3	3	3	2	3	4	4	4
21	208	213	13	3	3	2	3	3	3	3	2
20	232	191	23	3	3	3	4	5	4	4	3
19	175	181	30	5	4	3	4	5	4	4	4
18	124	164	18	3	3	3	3	4	3	4	3
17	62	154	21	4	4	2	4	4	4	3	3
16	94	152	34	5	6	6	2	3	3	3	3
15	125	152	20	2	2	3	4	4	3	3	5
14	121	153	15	3	5	4	3	1	2	1	2
13	136	146	7	0	1	1	2	1	3	3	3
12	107	145	5	3	2	2	2	1	2	0	0
11	105	138	8	1	3	2	3	2	2	2	2
10	103	151	6	1	1	2	2	2	3	2	0
9	158	145	6	0	1	3	2	2	3	0	1
8	140	146	9	3	3	3	1	2	2	2	1
7	118	148	25	1	2	5	5	4	4	4	3
6	100	151	9	4	3	3	1	1	2	1	1
5	134	155	21	4	3	5	4	3	3	3	2
4	188	160	23	3	3	3	2	3	5	5	4
3	195	163	5	2	0	0	2	2	3	2	1
2	239	181	26	3	4	4	4	4	5	4	3
1	262	206	22	1	3	2	3	4	5	5	3

In the March column I made reference to the fact that the smoothed sunspot number for June/89 had come in at 157.9. Mike Bird recently reported on 'Media Network' the availability of the numbers for July and August. If we take a look at the smoothed numbers for May through August/89 inclusive, they look like this:

May - 156.5
June - 157.9
July - 158.1
Aug - 157.3

Notice that the ascent of the smoothed 12 month numbers appears to have flattened out and it remains to be seen whether this plateau was representative of an early peak in Cycle 22; or, as the data for subsequent months becomes available, we will find that the uptrend resumed. You may recall that the Solar Index Data Centre in Brussels was projecting that the maximum for this cycle had been attained last September. Recently, however, the Space Environment Services Centre stated their belief that the peak had occured in March/90. Since we're into predictions, I'll make one too, just for fun: January, 1990. We'll probably know for sure within the next six months.

Now, let's take a look at what actually happened in terms of solar andgeomagnetic activity in March, 1990:

SOLAR / GEOMAGNETIC DATA FOR MARCH, 1990

Date	Sunspot Number	Solar Flux	Boulder 'A' Index	Boulder 'K' Index 00 03 06 09 12 15 18 21
Mar'90				
31	149	172	7	2 2 3 1 2 2 1 2
30	165	178	51	3 5 7 6 5 5 3 3
29	180	184	17	2 3 1 3 5 4 2 3
28	179	203	18	3 4 3 3 3 4 3 3
27	214	214	23	5 4 3 3 3 4 4 3
26	261	227	33	5 4 5 4 4 5 4 3
25	302	231	29	4 3 2 4 4 6 4 4
24	333	229	15	3 4 3 3 3 3 2 3
23	325	242	22	3 4 3 4 4 4 4 3
22	285	247	25	4 3 4 4 5 4 3 3
21	298	227	60	7 4 7 5 5 5 3 3
20	326	216	21	3 3 2 2 2 4 3 6
19	279	217	10	4 3 2 2 2 2 2 2
18	245	196	26	0 1 3 3 5 6 4 4
17	182	182	3	1 1 1 1 1 2 2 0
16	190	175	7	2 3 2 2 2 2 2 1
15	143	170	11	4 3 3 2 2 2 2 2
14	118	153	24	5 2 3 5 5 3 2 2
13	126	147	22	5 4 4 3 4 3 2 3
12	123	149	30	2 4 3 3 2 6 5 5
11	124	144	11	3 2 1 3 3 3 3 2
10	115	150	10	2 2 3 2 2 3 3 2
9	118	155	11	2 3 2 4 2 3 2 2
8	128	161	10	2 2 2 3 3 3 2 2
7	152	170	7	2 3 3 2 2 1 0 1
6	130	166	9	4 3 3 2 3 4 2 2
5	159	163	10	3 3 2 2 2 2 2 3
4	149	171	7	1 1 3 4 1 1 0 2
3	216	186	9	2 3 3 2 1 3 2 2
2	221	195	13	3 2 2 4 2 3 3 3
1	221	204	18	3 4 4 3 3 4 2 3

During the period March 16-20, ODXers John Bryant, Guy Atkins and myself enjoyed fantastic South Pacific and Asian reception on MW and to some extent on the Tropical Bands during our DXpedition to Grayland, Washington, in a state park fronting onto the Pacific Ocean. Preferred path openings were quite variable from day-to-day and it's interesting to look back now and reflect on what was heard with reference to the propagation conditions implied by the solar and geomagnetic activity during that time. Notice the sharp rise in solar activity which commenced on the 18th and culminated in a major geomagnetic storm on the 21st. Next month I will report on the hilites of our DXpedition which turned out to be a great celebration of Shortwave Radio Week for all of us! ◆

BROADCASTING NEWS

* (All Dates/Times are UTC Unless Otherwise Stated) *

AFGHANISTAN: Radio Afghanistan's external service to Europe in English has been expanded to one hour duration: 1830-1930 on 15440, 11830 and 9635. A transmission in French follows. While the latter frequency is said to be direct from Kabul, the other channels which are more likely to be heard are Soviet relays. These relays could disappear in the near future, given the precarious position of the Moscow-backed government which barely survived a coup attempt on March 6th.

Soviet relays of the domestic service continue to be heard on 4740 and new 4975, the latter quite likely originating with the former Radio Dushanbe (Tadzhikistan) transmitter. (RNMN via Riddell)...as reported last month, **Radio Dushanbe's Home Service** (Pgme II) can now be found on 7245 kHz.

ALASKA: KNLS has reduced their schedule to allow for installation of automated equipment. From March 26th and for several months, English will be found at 0800-0900 on 11715, and at 1500-1600 (except Mondays), also on 11715. (Arthur Cushen's DX World)

ANDAMAN ISLANDS: AIR Port Blair have advised that they are using 4760 in regular service at 0030-0345 but that the transmissions scheduled at 1030-1630 are still on a test basis. [This probably accounts for the fact that a number of us have heard Port Blair (presumed) suddenly jumping on the air without any IS or sign-on procedure around 1155 during the the past several months. /dmc]

AIR Leh also uses 4760 from 1130, including a common AIR English program at 1530-1602 and so, station representatives at Port Blair are looking for reception reports outside that time-slot to distinguish whether reported receptions actually originated with the Port Blair site. (Arthur Cushen's DX World)

ANGOLA: Radio Nacional's external service timetable has been adjusted so that transmissions are now at 1900 in French, 2000 in English, and 2100 in Spanish. The frequencies used are 3375, 7245 and 9535.

The 'A' program, formerly heard on 4953 has, for some time now, been on an out-of-band channel - 5500v, and apparently operates at 1500-0500. (RNMN)

AUSTRALIA: In 1989, **Radio Australia** established their fourth transmission station which they refer to as a temporary facility, at Brandon, near Townsville in Queensland. The site uses three 10 kW transmitters which were moved from the Lyndhurst location that was closed down the previous year. Potentially, higher power transmitters will be installed here, but in the meantime, it is intended to provide regional coverage to Papua New Guinea and the near Pacific.

The current schedule for English transmissions from Brandon is as follows:

* 11930 at 0700-0800 and 1100-2030
* 11880 at 2030-0800
* 7240 at 1100-2000

As from March 4th, Radio Australia made extensive frequency changes, which included the introduction of seven "out-of-band" channels which are listed as follows (all of these being English transmissions):

* 13605 at 2230-2400
* 13700 at 1530-1800
* 15465 at 2030-0730
* 15560 at 0200-0800
* 17630 at 0000-0400 and 0500-0900 (0000-0900 continuous on Sat/Sun)
* 21775 at 0630-1400
* 21825 at 0900-1000

If you've had trouble hearing Radio Thailand around sunrise lately, the problem is that Radio Australia is now using 9655 for service to New Zealand at 1100-1930. (Arthur Cushen's DX World)

Radio Australia has also revealed that they are looking into the prospects of establishing a relay station in northeastern Thailand, in order to achieve more effective "one-hop" coverage into northern Asia. (The prospective relay would be in the same vicinity of the large VOA project which is underway with provision for seven 500 kW transmitters, one or two of which will be at the disposal of Radio Thailand.) To date, no funds have been appropriated for this project which would, of course, represent Radio Australia's first offshore relay site. (RNMN)

AZAD KASHMIR: The rarely heard **Azad Kashmir Radio** is reported to be operating on 7268, 4980 and 3665 at 1050-1810 and 0045-0605. Sometimes, there are English news relays from Islamabad at 03, 05, 11, 14 & 1600. (RNMN)

It is generally believed that only the low-powered outlet on 3665 is actually located in Azad Kashmir, whereas the other transmitters are understood to be located on Pakistani territory. Nonetheless, a verie letter was recently received by Terry Palmersheim for a report on 4790.5 (now 7268), in which it was stated "It is informed that AKR transmitters are situated in Azad Kashmir". (fine tuning)

I could be wrong but I think that one falls into the "don't you believe it" category! /dmc

BANGLADESH: Radio Bangladesh is on the move again - they've now appeared on 15040 (ex 15195) for the English broadcasts at 0800-0830 and at 1200-1300. The // frequency is 17850. (RNMN via Riddell)

CONGO: As first-mentioned last month, **RTV Congolaise** continues to appear irregularly on 6115 and more recently also on 15350 (noted around 1000), a frequency used in the past by Radio Zaire. (RNMN)

CZECHOSLOVAKIA: Without prior announcement or explanation, **Radio Prague** suddenly left the airwave on April 1st and were not expected to resume broadcasts (with a number of cutbacks in foreign language services)until May 7th. An internal re-organization is underway, largely motivated by political considerations, it seems. (RNMN)

INDONESIA: Voice of Indonesia has been operating at 0100-0300 in English & Indonesian; and at 0800-1000 in English & Malay on a frequency varying 11750-11755, parallel to 11785. (Lim Kong Jin's "South East Asia DX News" - Edition #7)

ITALY: We now have another new private shortwave voice from Italy and it is apparently a legitimate operation. The **Voice of Europe** began testing in early March and since March 15th has been operating on a regular basis, 24 hours daily on 7556.6v. (RNMN via Riddell)

LITHUANIA: R. Vilnius broadcasts in English are now one hour earlier: 2130 for Europe and repeated at 2200 for North America. The frequencies to check are 6100, 11770 and 12060. Although there are several transmitters actually located on Lithuanian soil, in this case the latter two channels are represented by transmitters located elsewhere in the Soviet Union. (RNMN via Riddell)

When the independence declaration was announced on March 11th, relays of Radio Vilnius external services were dropped by Radio Moscow although the broadcasts returned to normal a day or two later. A similar disruption of the relays occured during the March 17th weekend too. (Sellers)

MALAYSIA: Here are several updates and corrections to the WRTH listings: The domestic service in English is carried on **'Radio 4'** (not 'Radio 3', except that the latter carries the Capital City Service from Kuala Lampur in English during the period 1000-1100 daily). In addition, Radio 4 now broadcasts continuously, 2200-1600 (formerly 2200-0600 & 0900-1600) daily. Other regional services in Bahasa Malaysia can be heard on 'Radio 1' frequencies. ("South East Asia DX News" - Editon #7)

MONGOLIA: Asian expert John Bryant points out that now is a good time to listen to the English broadcasts from **Radio Ulan Bator**. He writes:

"The Mongolian government has been largely a puppet of Moscow since the Red Army installed the government in Ulan Bator in 1920 at the end of the Red/White Russian Civil War. The Chinese made 'their' Mongolians into the 'Autonomous Region' of Nei Meiggu.

"Since the (Russian) Mongolia was founded, the Head of Government has NEVER 'chosen' to travel to a non-Communist country (and few visits beyond Moscow). [At the beginning of March] the current Mongolian Head of Government visited Japan. Among other public statements, he said that he would 'gladly' step aside if the Mongolian Communist Party lost the free ELECTIONS (!!!) scheduled for several months from now.

"Besides making for interesting radio from Ulan Bator, this has got to have the 85 year old 'Boys in Beijing' some kindda MAD!! They've got be mad for at least three reasons:

(1) Afraid that 'our' Mongols might want an election too!
(2) Afraid that 'our' Mongols might want to hitch up with 'their' Mongols. Look how close the border of Nei Meiggu comes to Beijing itself. Beijing as a capital was founded by Genghis Khan/Kublai Khan tobe between Mongolia and China...It was no accident that the 'Boys in Beijing' brought in Mongolian troops to clean out Tienamen Square.
(3) This election malarky was OK in Eastern Europe except for what those Rumanian ingrates dod to poor Comrade Nickolai; elections were less OK in Moscow and the RSFSR; now there are gonna be elections in Mongolia!! Somebody might want elections in Beijing (or much more likely, Shanghai!!!).

"This democracy crap could get serious!! As they say on the radio...STAY TUNED!" (Thnx John Bryant for these perspectives)

The most likely chance to hear Radio Ulan Bator in English is at 1200-1230 daily (except Tuesday & Friday) on 12025 (ex 12015). /dmc

NEW ZEALAND: The tentative schedule for **Radio New Zealand International** during the period March 18 to September, 1990, was listed as 1900-2200, 0000-0200 and 0400-0700 - all on 17680. Possibly alternative frequencies which may be used, depending on conditions, are: 9850, 17730, 17705 and 15485. (RNZ Int'l direct)

PERU: A number of DXers have noted the recent re-activation of **Radio Ondas del Titicaca** on 4924.1 (ex 4921v), s/on usually about 0955 and announcing 4925 kHz. Lake Titicaca is the largest lake in South America and the highest navigable lake in the world, some 12,500 feet above sea level! The surrounding region was a seat of very early Indian civilization and contains many architectural ruins, some of which antedate the Incan Period. (Fine Tuning / dmc)

Speaking of the Incas, the background of the name of **Radio Tawantinsuyo** (to be found on 6175 kHz) is interesting too — "Tawa" means '4' in the Indian Quechua language, and "Suyo" means 'region'. So, Tawantinsuyo is the 'fourth region'. The Inca Empire was divided into four regions. (Pampas DXing)

PHILIPPINES: We mentioned last month that **Radio Veritas** has eliminated regular broadcasts in English. A good chance to log them would be at 1000 s/on on 9520 when there are extensive schedule announcements in English (for Asian languages broadcasts until 1600), before commencement of a program in Mandarin. (Arthur Cushen's DX World)

PORTUGAL: **Radio Portugal** recently put a new 300 kW transmitter into service and it's likely that's what's being heard on the new frequency of 15250 at 2130-2200 (probably Monday-Friday) with a transmission apparently intended for Africa. (RNMN via Riddell)

ROMANIA: This country's external service is now called **Radio Romania International** instead of Radio Bucharest and a new interval signal replaces the former trumpet fanfare too. (RNMN)...hmmm...now we have another "RRI", not to be confused with Radio Republic Indonesia.

SOUTH AFRICA: In a surprising announcement on April 9th, it was revealed that **Radio RSA's** external services (targeted outside Africa) were to be shut down at the end of the month as a result of cutbacks in government funding of the South African Broadcasting Corporation. (RNMN)

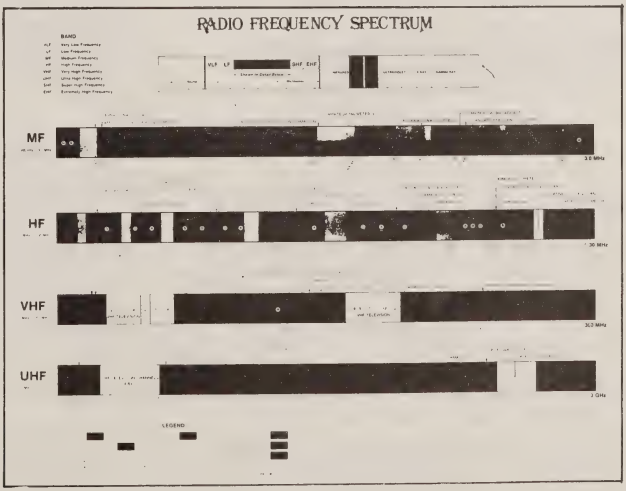
SRI LANKA: Now that virtually all Indian peacekeeping troops have been withdrawn, it remains to be seen if the **Deutsche Welle** relay transmitter at Trincomalee will be subject to any further difficulties with the Tamil rebels. At least for now, the station is fully operational and the English broadcast at 0200-0250 is now carried on the new frequency of 11965 (//9615). (RNMN via Riddell)

UNITED KINGDOM: The **BBC** transmitters at the Skelton 'B' site, which were used for transmissions to Europe and North Africa, are to be closed down after 47 years of service. The antenna field will be re-developed and new, higher-power transmitters to be installed at a new Skelton 'C' locale will be operational by the summer of 1991. (BBC Waveguide via Sellers)

VENEZUELA: Venezuelan National Radio broadcasts on 9540 in Spanish only at present, but transmissions in English, French and Portuguese are planned in the near future to broaden the external coverage. In addition, a new outlet, Voice of Venezuela, is said to be targeted to operate on 1240 MW using two 500 kW transmitters which will be lashed together to provide an output of 1 megawatt for regional coverage to Venezuela's neighbours. What's interesting here is that both stations will be owned by the government, meaning that there will actually be two different external services originating from the same source. (RNMN)

Acknowledgements: Thanks to the following individuals who contributed directly or provided material which was utilized in the preparation of the column this month — John H. Bryant, Harold Riddell and Harold Sellers.

As credited, information was also derived from the following bulletins: Fine Tuning, Arthur Cushen's DX World, Pampas DXing and South East Asia DX News. ◆



This is a picture of the Radio Frequency Spectrum chart sold by the ODXA. It looks great framed and mounted on the wall.

Tom Williamson
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TROPICAL LOGGINGS

This column is designated for the ongoing survey of broadcasting stations between 2000 and 5900 kHz, wherein are found the Tropical Broadcast Bands. The following are reports of stations heard recently by our members. All members are welcome to send in their loggings.

Here we are again folks! Never a dull moment, since your scribe is in the throes of packing up the home for a move to Peterborough. By the time you read this column I should be installed in a new home, providing all the legal arrangements fall into place. I am hoping to be able to erect some good antennas to improve my reception on the low frequencies, since an apartment situation obviously has built-in limits as far as long wires are concerned. From this point on, please address all reports to me at the above address.

You will appreciate the chaos I am currently experiencing, so I hope there are no obvious errors in this column. Unfortunately, I had to reject some loggings that were made in late January and early February; due to the seasonal nature of reception on the tropical bands, it is important that reports be as up-to-date as possible, and these could easily have been sent in time for last month's column. Without prolonging the introduction unduly, let me welcome Cindy Ellen Morgan, who sent in two logs to the International Bands column which belong here, so Al kindly forwarded them to me. I also received a note from Mike Csorbay, who had some time off work in February and logged the following: 3325 Radio Maya, Guatemala; 3970 Buea, Cameroon; 4238 Radio Inca, Peru; 3280 La Voz del Napo, Ecuador; 4910 La Voz de la Mosquitia, Honduras, and also a couple of new Brazilians. And now, onward to this month's loggings ...

****

2410 PAPUA NEW GUINEA Radio Enga; 1155 country & western music poking through but watery signal and poor audio; Mar 8 ... also at 1045 fade-in to 1110 peak with talk in local lang and sing-sing; weak Mar 25 (DMC)

3205 PAPUA NEW GUINEA Radio West Sepik; 1140 in English with announcement about a local health centre, time check and ID as "Radio Sandaun", then into accordion music of all things! Very good Mar 11 (DMC)

3250 HONDURAS Radio Luz y Vida; in Spanish at 1129 with religious program giving address in California, ID at 1131; fair Feb 23 ... and again at 0316 with Latin music and Spanish announcements; fair Feb 28 (DH)

3306 INDONESIA (TIMOR TIMUR) RRI Dili; fading up at 1135 on Mar 11 with pop songs and lady announcer, building to fair peak; also heard 1145 March 12 with songs, chimes and orchestral theme at 1156, lady with ID at 1159 into Song of the Coconut Islands and Jakarta news relay at 1200; poor, possible /unID on 3252 heard 1145-55 (DMC) ... 1040 early fade-in with light music, 1059 brief male announcer, then electronic musical tones and lady with mention of Dili (was not RRI ID), talks by lady and man until return to music at 1124; poor Mar 31 (CJM)

3325 INDONESIA (KALIMANTAN) RRI Palangkaraya; this presumed the one at 1159 with Song of the Coconut Islands, Jakarta jingle and news by man; weak Mar 8, faded completely by 1210, slight het from Guatemalan but PNG absent and no ute for a change ... same story at 1159+ on Mar 11 with possible PNG in the background (DMC)

3345 INDONESIA (MALUKU) RRI Ternate; 1158 man with ID, Song of the Coconut Islands to 1200, Jakarta jingle and news; fair Mar 10 ... 1115 religious service; quite good Apr 1, PNG absent both dates (DMC)

3384 unID; Latin at 0806 with music and Spanish announcements, mention of "Radio Rumbos"; fair but distorted, Feb 23 (DH) ... This was undoubtedly R adio Rebelde, Cuba, with maybe a relay of Rumbos? Or simply a reference to them? Rebelde has since moved to 3360. (Ed)

3385 PAPUA NEW GUINEA Radio East New Britain; from 0745 with program of religious choral music, building to good level by 0800; Apr 1, good sunset peak, other PNG's had carriers but no audio (DMC)

3394.8 INDONESIA (SUMATERA) RRI Tanjungkarang; good at 1107 with Koran chants, religious talk at 1110, PNG much weaker; Apr 1 (DMC)

3600 Clandestine? unID Latin at 0425-40 with mentions of Managua, Nicaragua, la revolucion and Cuba; fair Feb 24, CW interference (RS)

3607.5 JAPAN NHK (Tokyo?); 1122 talk in Japanese by lady, music bridge, then man continued; fair Mar 10 in USB mode. Possible NHK-Osaka carrier & threshold audio same time on 3377.5. (DMC)

4000 CAMEROON Radio Bafoussam; this presumed the one at 0442 with religious talk in French, hymns, minister and congregation with responses; fair Mar 25 (RS)

4607 INDONESIA (IRIAN JAYA) RRI Serui; light music from 1125 tune-in to 1132, then ID by man followed by educational program to 1153. Returned to music until Jakarta news relay at 1200; poor Mar 19 ... also on Apr 1 with educational program at exactly the same time, but no Jakarta relay at 1200; fair. The educational program just after 1130 seems to be a regular part of their programming. (CJM)

4760 CHINA Kunming, Yunnan PBS; 2307 Chinese news and music; poor Feb 28 (MH)

4760 INDIA All India Radio, Pt. Blair; almost certain this was the one on Mar 11 with Indian songs at 1205, lady spoke briefly at 1210, then chants by man at 1213 fade; fair/good, mixing at equal level with China ... again on Apr 1, jumped on the air at 1155 with Hindi music, briefly fair but faded quickly; consistent with Numero Uno reporter in Singapore who heard 1200 sign-on (DMC)

4771 NIGERIA Radio Nigeria, Kaduna; 0600 "Radio Nigeria" ID, drums, time pips, news and commentary in English read by lady; poor Feb 24 (DH)

4795 USSR; man in English to unidentifiable ID at 2259, close at 2300; poor Feb 24 (DH) ... This is either Ulan Ude or Kharkov, but sked favours the latter. (Ed)

4810 USSR Armenia, Radio Yerevan; 0318-26 music of regional folk dance style, man in dialect; fair Feb 24 (DH)

4815 BURKINA FASO Radio Burkina; 2308 in French with talk about "les problemes politiques africaines", flute and drum music, and talk about popular music; fair Feb 22 (DH)

4820 HONDURAS La Voz Evangelica de Honduras; 0239 tentative ID as "La Voz Evangelica", followed by organ music and choral hymns; fair Mar 28 (KJ)

4830 VENEZUELA Radio Tachira; 0339 with commercials, Spanish announcements, then radio drama with screaming maidens and villainous man (!!); good Feb 24 (DH) ... and at 1001 with instrumental anthem, then rousing male choral anthem, ID by man; good Mar 1 (MAC)

4835 GUATEMALA Radio Tezulutlan; 1147-1203 with intermittent breaks, regional marimba music and songs, announcer in dialect, ID at 1202 by lady in Spanish; Feb 24, good strength but poor modulation (DH)

4835 MALI Radiodiffusion TV Malienne; 2232-45 news in French, string & drum music, mention of Bamako; poor Feb 26 (DH)

4866.5 INDONESIA (IRIAN JAYA) RRI Wamena; presumed at 1120 with local songs, weaker at 1137 recheck; Apr 1,

absent from usual 4871, this frequency was used by them in the past. Very good Irian Jaya opening. (DMC)

4870 BENIN Radiodiffusion TV du Benin; 2248 French songs to close by man and anthem at 2300; poor Feb 22 (DH)

4880 SOUTH AFRICA Radio 5; 0340 modern African instrumental music, ads in English/Afrikaans, ID, then US pop music; fair Feb 22 (DH) ... 2315 blues/jazz music, male announcer to 0000 close with highlights of tomorrow's program and invitation to tune in again at 0300 UTC; good Mar 13 (MAC)

4904 CHAD Radiodiffusion Nationale Tchadienne; 0435 man talking in French and dialect, modern African music, ID at 0450; fair Feb 24 (DH)

4920 ECUADOR Radio Quito; 0459 close after zither-piano-whistle music and "muy buenos noches"; good Feb 24 (DH)

4931.9 INDONESIA (JAWA) RRI Surakarta; presumed at 2220 with music, announcement by lady and off at 2225 as it drifted down to 4931.7; very weak Mar 11, noted earlier this season closing around 2210+ after Jakarta news. (DMC)

4990 INDIA All India Radio, Madras; 2358 interval signal, then talk by man in lang followed by song by lady; fair Mar 23 (RR)

4990 NIGERIA Radio Nigeria, Lagos; 2235 easy-listening music with lady announcer in English in "Music to End the Day" program, 2300 time check "It's midnight, Radio Nigeria ... the news ...", 2304 man & lady announcers with ID, frequencies, sked, choral anthem and off at 2305; good Mar 5 (MAC)

5000 VENEZUELA YVTO, Observatorio Naval Cagigal (time signal station); 0720 time signals and voice announcements in Spanish each minute between WWVH/WWV announcements; good Mar 8 (CEM)

5023 BHUTAN Bhutan Broadcasting Service; 1227 traces of Indian-style music, man in unidentified lang to fade-out by 1240; poor Mar 11 (MAC) ... tentative but very nice! (Ed.)

5025 CUBA Radio Rebelde; 0209-15 in Spanish with football and usual excited announcer, ID at 0215; good Feb 22 (DH)

5030 ECUADOR Radio Catolica; 0155 in Spanish with prayers and responses, ID and announcements at 0159, then march music by band; fair Feb 22 (DH)

5044 COSTA RICA Radio Impacto; Latin music, ID by man in Spanish at 0205; fair Feb 22, but possible jamming? (DH)

5050 ECUADOR Radio Jesus del Gran Poder; 1057 religious music and inspirational talk, ID at 1102, then religious music; good Mar 13 (MAC)

5075 CHINA Urumqi CPBS-2; 2243 report in English about agricultural project in Cameroon sponsored by Chinese government, time pip at 2300 and brief talk in Chinese, then march music; good Feb 28 (MAC)

5097 PERU Radio Eco; 1025-35 instrumental pop music, Spanish songs and announcements by man including ID with echo; fair Mar 24 (RR)

5286 CHAD Radio Moundou; 0555 stringed instrument interval signal, then national anthem followed by choral song, opening by man "Ici Moundou, station regionale de la Radiodiffusion Nationale Tchadienne", into freqs and program rundown; good Mar 24 (CJM)

5850 CHINA site? 1106 apparent news in lang read by man and woman alternating; fair Mar 15 (RS)

5880 CHINA Urumqi Xinjiang PBS; this presumed the one with Chinese opera songs by lady at 1101; poor Mar 15 (RS)

CREDITS:

DH David Harrison, Toronto; NRD 525, Panasonic B65, Sony 2010, 100' & 180' wires

MAC Mark Coady, Toronto; Sony 2010, Magnavox D2999, 60' wire, 120m windom
MH Mark Humenyk, Weston; Magnavox D2935, windom
CEM Cindy Ellen Morgan, Whitevale; FRG 8800 with FRT 7700 tuner, 180' inverted L
RS Bob Stewart, Mississauga; R5000, dipole, Alpha Delta sloper
RR Robert Ross, London; TS440S, Sony 2010, longwire, dipole, vertical
KJ Karlis Jansons, Willowdale; Sony 2010, 80' wire, Grove minituner
DMC David Clark, Newmarket; NRD 515, Drake R-4B, R-390A, antenna farm
CJM Cedric Marshall, Newmarket; NRD 525, HQ-180, R-388, R-390, antenna farm

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INTERNATIONAL LOGGINGS

Here is where you find out what Ontario listeners have been hearing on the International Shortwave bands, 49 through 11 meters, in recent weeks. While it's a showcase of listening results, we encourage reports which will be of benefit and interest to the casual listener as well as the seasoned DXer.

Times in UTC —— Dates in DD-MM

All Loggings in English Unless Otherwise Noted

Deadline for June Issue - April 27

Another excellent turnout this month. Among the items currently available are the extended hours of many of the Arabic stations due to the month of Ramadan. As I write this I am listenig to Qatar on 17825 at 0010, an hour when they are not normally heard. Many other fascinating catches are available during these exceptionally good reception conditions.

0000 - 0059

7417.7U PIRATE: UNID, heard at 0036 with a good signal on 05-03. Hank Williams recordings, DJ with "The History of Country Music". Talk of the "Grand Ole Opry" and off at 0042. (RR)

9435 ISRAEL: Israeli Radio with good reception on 03-04 from 0012. Programme of Israeli music. (GB)

9565v ROMANIA: Radio Bucharest, in Spanish, with a rock ballad in English heard with a fair signal on 18-03 at 0042. ID at 0048 as "Radio Rumania Internacional" followed information on upcoming programmes. Several ID's as "Radio Bucharest", full ID at 0057, then Interval Signal (IS) and off. Over the time monitored the station drifted from 9565 to 9570 to 9575. Listed as 9570. (KJ)

9660 VENEZUELA: Radio Rumbos, Caracas, in Spanish with lively Latin American music. Heard from 0050, with ID at 0054. Signal was poor to good, fading in and out with an UNID station on same frequency. (AG)

11605 ISRAEL: Israel Radio on 14-03 at 0010 with an excellent signal. Programme on Israeli banking and life in Israel, followed by programme schedule. (BB) Excellent signal on 03-04 at 0210 with report of snow in April for only the third time since 1861. (AG)

0100-0159

7355 U S A: WRNO, New Orleans. A very good signal, but with an accompanying buzz, of Glenn Hauser's "World of Radio" #537 from 0150 on 30-03. A reminder that as of 01-04, the programme would be heard one hour earlier. (AG)

7414.4v PIRATE: UNID on 04-03. Carrier from 0110 and sign-on at 0118. Music by "The Who" and Jimi Hendrix. The Pirate Radio Song and Punk Rock. Some jamming, gone by 0223 but back at 0255. Played love songs for a girl named Cindy. Utility QRM and bad transmitter problems. (RR)

7415 PIRATE: UNID. A poor to fair signal on 13-03 at 0130. Pink Floyd, Jefferson Airplane and Blues music. Talk by man but very weak. (RR)

7415.1 PIRATE: WGAR, ID'd as near Gary, Indiana. Talk about "Smokin' Mojo" and "Popular Communications". Asked listeners to call him on CB Ch 39. Heard on 01-04 from 0102 to 01with-

with a good signal. (RR-N)

7415.5 PIRATE: Radio Espiritu(??) with a poor to fair signal on 04-03. Gregorian chants from 0104. QRM from a carrier at 0110, with chanting continuing to 0135. (RR)

7440 BYELORUSSIAN SSR: Radio Moscow, Minsk, with poor to fair reception in Russian. IS at 0159. Site ID from new ILG. //7420, listed for Orsha, Byelorussia. (AG)

11780 VATICAN STATE: Vatican Radio on 05-03 with news from 0100, followed by a talk on Lent, then times of Church services. Very good with some interference. (BB)

11935 SOUTH AFRICA: Radio RSA on 05-03 from 0159 with ID, news and the programme "Africa South". Excellent signal. (BB)

15425 SRI LANKA: SLBC, Colombo, with good reception on 01-04. Religious programming from 0150. ID on the hour as "Overseas Service of SLBC", then news. (RR-N)

0200 - 0259

5930 CZECHOSLOVAKIA: Radio Prague in Spanish with a very good signal on 29-03 at 0240. Many mentions of Prague and Czechoslovakia. At 0258 the new Interval Signal, a nine-note theme from the first movement of Antonin Dvorak's Symphony No. 9, "From the New World", with multi-lingual ID's followed by frequencies and programming in English. The new IS is, to me, symbolic, and a clear indication of the changes in Eastern Europe. (AG)

6160 NEWFOUNDLAND: CKZN at 0243 with classical music programme "Mostly Music", featuring works of Richard Strauss. Good on 02-03. (MAC)

6248 VATICAN CITY: Radio Vatican in an UNID language at 0214 on 30-03 with a poor signal. The Interval Signal was heard once at 0215, making an ID possible on 30-03. Overall rating poor. (AG)

6550 LEBANON: Tentative logging of The Voice of Lebanon at 0204 on 30-03 with fair reception of a programme of music, including "La Vie en Rose' and "Misty". No talk, hence no ID, heard. (AG)

7205 GREECE: VOA relay, Kavala, with World news. Fair reception from 0204 on 29-03, but with het and other interference. VOA ID at 0210. (AG)

7415 PIRATE: WMAX at 0256 with a fair signal on 16-03. Beach Boys, ID and oldies type music. Cigarette advertisement at 0302. ID and off at 0308. (RR)

7415.3 PIRATE: Believed to be WINN on 04-03 from 0229 with a good signal. Unclear ID with address in Slanesville, W Va.. Talk of the Beatles White Album, of Saudi Arabia, Radio Pakistan and others. Interval Signals and ID's for All India Radio, FEBA and others. Off at 0250. (RR)

9885 SWITZERLAND: Swiss Radio International with ""Swiss Shortwave Merry-Go-Round". The "Two Bob's" answering technical questions on 25-03 at 0218 with good reception. (HS)

13255.4 PERU: Radio San Antonio (tentative) from 0246 to 0356 on 25-03 with a poor to fair signal. Tuned into this station about a month ago and have been trying for a positive ID ever since. Programming was in Spanish, with pop music and Andean music. Many mentions of "Radio del Peru" and "Bambamarca" in the announcements and occasional ID's which sounded like Radio San Antonio. (JF)

15000 HAWAII: WWVH with female announcer with time announcements beginning on the 45th second at 0240. Solar forecast at 0245, Omega report at 0247, weather at 0248 - 0250 and ID and station information at 0259. Fair under WWV on 01-03. (MAC)

15040 UNID: Spirited talk in an Oriental language, with regular intervals of music which was clearly Oriental. Reception wavered from good to excellent on 08-04 from 0240, but no ID was heard. Off at 0252. (AG)

17680 NEW ZEALAND: Radio New Zealand International with time pips at 0200. ID followed by the announcement "We're relaying this cricket match from our National Service". Good on 06-03. (MAC)

0300 - 0359

6190 LESOTHO: BBC World Service relay with British news at 0313, Big Ben at 0315 followed by "The World Today". Poor on 01-03. //6175, Sackville. (MAC)

7110 ETHIOPIA: Voice of Ethiopia with good reception on 31-03 from 0328 to 0340. Carrier at 0328, IS of xylophone type of instrument. Male announcer in UNID language, ID and gong followed by talk and local string/percussion music. (RR-N)

7394.7 PIRATE: Radio USA, fair on 25-03 at 0322. ID as "Radio USA, broadcasting from a leaky bathtub". 202-678-9948 given, and Wellsville, NY address for QSL's. (RR)

7400 PIRATE: WXZR. ID and address of Box 109, Blue Ridge Summit, PA 17294. Said "Our very first recording test". DJ sang "My Boomerang Won't Come Back" and other goodies! Very good on 01-04 from 0301 to 0320. (RR-N)

15325 FRENCH GUIANA: Radio Japan (relay - ed) with a talk on courier service, followed by music. Good on 05-03 from 0320. (BB)

17680 NEW ZEALAND: Radio New Zealand on 19-03 at 0345 with excellent reception of bagpipe music. Talk of a tattoo, and the probability of an increase in the cost of electricity when the industry is privatized. Cricket scores, time check, "8 minutes to 4", followed by "September Song". News and weather from the hour. (AG) Heard with a very good signal on 01-03, with coverage of a local test match (cricket) and talk of an upcoming test match with Australia to begin 15-03. (MAC) Fair reception of coverage of a test match on 16-03 at 0330. (HS)

0400 - 0459

6899.9 TURKEY: Turkish State Meteorological Service in Turkish heard with fair reception on 31-03 from 0423 to 0435. Turkish vocals at 0423 - 0428. Local flute/string music and some pop music. (RR-N)

7370 TURKEY: Turkish Police Radio on 31-03 with ID from 0457 to 0500 opening in Turkish, followed by domestic style music/vocals. Fair and in the clear. The State Meteorological Service also noted on 6899.9 at 0505 with chants, but much weaker with Utility QRM. (DMC)

7487.65 CLANDESTINE: Tentative logging of the Voice of the Broad Masses of Eritrea, based in Ethiopia, with fair to poor reception on 15-03. Local music and man talking local language (presumed). Carrier at 0405 and signal at 0410. Signal was possibly jammed. Off at 0422. (RR)

11755 SWAZILAND: Trans World Radio with a fair signal on 21-03 with IS of music box followed by ID in English. Sign-on ruined by splatter from Radio Havana Cuba on 11760. (DG)

15170.8 TAHITI: RFO Polynesie in Tahitian at 0419 with typical format of male announcer with small talk and island music. Fair with het on 10-03. (MAC)

0500 - 0559

14917.7 KIRIBATI: Radio Kiribati. Open carrier noted at 0550, then tone at 0555. ID in English, "Radio Kiribati", brief fanfare and programme highlights in both English and I-Kiribati. The song "Aquarius", followed by time-check and possible ID at 0559. BBC World Service news from 0600. Very weak on 04-01. (Country 200) (MAC)

15320 AUSTRALIA: Radio Australia. An excellent signal on 25-03 from 0500 with world and Australian news, followed by recordings by Johnnie Ray, who died on that day. (BB)

0600 - 0659

7125 ITALY: AWR Europe, Forli, with ID in English, French, German and Italian at 0629. "Powers to Cope" from 0630 in English. Good on 05-03 (MAC)

7259 VANUATU: Radio Vanuatu at 0645 with talk in French, occasionally broken by chimes. Native vocal at 0650, then a pop song until a quick announcement at 0659 and off the air. Weak on 25-03, possibly transmitter problems. Heard again on 01-04 with fairly good reception. (DMC)

0700 - 0759

5955 NETHERLANDS: Radio Nederland in Dutch to Europe. Excellent reception on 08-03 at 0730. (C-EM)

15045 UNID: Heard on 11-03 from 0731 to 0746 with pop music peaking up briefly at 0740, only to fade down just as quickly. Very poor on 11-03. Possibly a Europirate. (JF)

0800 - 0859

6305 CLANDESTINE: La Voz del Cid in Spanish with an excellent signal on 08-03 at 0810. IS and ID at 0815. (C-EM)

6150 COLOMBIA: CARACOL Neiva in Spanish at 0801 with an ad for Banca Capital. ID, followed by "Informativo Caracol". Excellent on 01-03. (MAC)

6160 CANADA: CKZU Vancouver with the programme "Mostly Music", with the music of Richard Strauss played by the San Francisco Symphony. Fair to good on 01-03. (MAC)

9630 NETHERLANDS ANTILLES: Radio Nederland, beamed to Australia and the South Pacific, with "Science Stories" at 0800 and "The Research File" at 0803. Very good on 05-03. (MAC)

10000 HAWAII: WWVH with announcements as reported in 0200 time-slot of this column. Very good on 02-03 from 0845. (MAC)

0900 - 0959

6000.2 BRAZIL: Radio Guaiba in Portuguese with talk and programme of Brazilian easy-listening and folk music. Heard with a good signal on 27-02 at 0924, with announcement at 0930 "La musica do Brasil". (MAC)

6060 BRAZIL: Radio Universo in Portuguese at 0952 with an interview. Announcement at 0954 "La programma presenta para Radio Universo". Good on 27-02. (MAC)

9580 AUSTRALIA: Radio Australia with "Agri-News" at 0937, a report on queen bee exports to Canada. Very good on 27-02. (MAC)

11780 BRAZIL: Radio Nacional do Amazonia in Portuguese at 0915. Brazilian ballads, with many ID's and slogans at 0926. Very good on 01-03. (MAC)

11805 GUAM: KTWR at 0928 with "We've A Story To Tell The Nations". ID at 0930 "This is KTWR, Agana, broadcasting from the West Pacific island of Guam", frequencies, then the programme "Insight For Living". (MAC)

1000 - 1059

6130 CANADA: CHNX Halifax with news and hockey scores. Heard with a fair signal on 13-03 at 1032. (AG)

6160 NEWFOUNDLAND: CKZN at 1054 with local news and talk of Labrador. Time check at 1058 as "It's 2 minutes before 7". "World Report" at 1100. Good on 12-03. (MAC)

6305 CLANDESTINE: La Voz del Cid in Spanish at 1010 with frequent, and varied, ID's and many slogans. Apparent news programme at 1015. Very good on 01-03. (MAC)

7370 TURKEY: Tentative logging of Turkiye Polis Radyosu. Surprised to find this one on my indoor antenna, but the music sounded Turkish, although the signal, while fair overall, was not good enough to identify either the language or the station. Heard 13-03 at 1043. (AG)

9675 PERU: Radio del Pacifico, Lima, in Spanish with good reception on 24-03from 1040. Pop music, several ID's, mention of Lima. (RR)

17860 ANTIGUA: Radio Deutsche Welle in Portuguese with an excellent signal heard at 1005 on 13-03 with news beamed to South America. (AG)

1100 - 1159

6306 CLANDESTINE: La Voz del Cid at 1120 on 17-03 in Spanish with fair reception of band music. Several ID's. (HS)

9665 CHINA: Radio Beijing in English at 1107 on 01-03 with a fair signal. News, followed at 1109 with news about China. (MAC)

25820 FRANCE: Radio France International in French with fair reception of man and woman talking on 03-04 at 1112. (AG)

1200 - 1259

6570 MYANMAR (Burma): Tentative logging of Defense Forces Broadcasting Unit in listed Burmese with Asian music and man talking over music. Fair on 11-03 at 1217. (listed 1 kw - ed) (MAC)

5980.2 TAIWAN: Voice of Asia from 1230 to 1300 on 04-03. Chatter in Indonesian, and a variety of Asian music. Fairly good, and notably better than the more powerful transmitter on // 7445. (DMC)

11784 INDONESIA: The Voice of Indonesia from 1210 with news in Indonesian to 1215. ID and frequency, then music. Quite strong on 01-04. Presumably a switch from 11788v. (DMC) Also reported at 1211 on 01-04 with music fanfare, mention of "Irian Jaya" and Indo-pops music. Mention of Ramadan, with recently began. Very good. (RR-N)

21705 DENMARK: Radio Denmark, via transmitters of Radio Norway International, with good reception on 17-03 at 1254. IS followed by ID's in English and Danish, then off. (DG)

1300 - 1359

7240 AUSTRALIA: Radio Australia, with IS, frequencies and target areas. Six time pips, then news at 1300. Media Network says this is Brandon, Queensland, from 1100 - 2000 with 10kw. Fair on 10-03. (DG)

9565 INDIA: All India Radio at 1328 on 25-03. IS at 1329, carrier off at 1330, then back with man reading news in English. Poor to fair with het. Heard thanks to Coady/Csorbay reports in April DX Ontario. (HS)

9635 AFGHANISTAN: Radio Afghanistan. Fair reception on 03-03 from 1319 to 1340 of the External Service with choral, string and flute music. Male announcer. Female announcer from 1331, with mention of Afghanistan. (RR)

9740 SINGAPORE: BBC relay at 1352 with British football scores, including in-depth details of several match results. Fair to good on 18-03. (MAC)

9760 PHILIPPINES: VOA relay, Tinang, at 1325 with round-table discussion on the Nicaraguan election. //11715 (Poro), 15155 and 15425, (both Tinang as per new ILG - ed). Fair to good , but fluttery, on 27-02. (MAC)

9770 AUSTRALIA: Radio Australia, beamed to s/seAsia, with a poor to fair signal, with distortion, on 01-03 at 1300 with a newscast. //9580 much better. 9770 closes at 1328. (HK)

11925 ECUADOR: HCJB, Quito. News in English beamed to Australia and the South Pacific. Fair to good on 13-03 at 1018. (AG)

11937.9 CAMBODIA: Voice of the People of Cambodia in listed Vietnamese at 1308, then local music, brief talk at 1318 and off. Poor to fair on 28-02. (MAC)

11980 GUAM: KSDA in Chinese at 1356. Religious music and talk ID in Chinese. ID in English "This is Adventist World Radio Asia. We invite you to stay tuned for our broadcast in Mandarin. This is Adventist World Radio. KSDA, Agat, Guam". Programming

followed in Mandarin. Good on 01-03. (MAC)

15325 YUGOSLAVIA: Radio Yugoslavia in English at 1301 with ID, programme highlights and news. Good on 08-03. (MAC)

1400 - 1459

11650 GUAM: KTWR with IS noted from 1458. "Good evening, and welcome to the programmes of Trans World Radio - Pacific. This is KTWR, Agana, Guam" heard at 1500, then programme highlights and "Radio Bible Hour". Fair on 18-03. (MAC)

13855 ICELAND: Icelandic National Broadcasting Service in Icelandic. Noted at 1410 with sign-on choral anthem. Programme 1 ID in Icelandic "Utvarp Rekjavik" at 1412, followed by apparent newscast. Fair to good on 18-03. //15767 was very good. (MAC)

15575 SOUTH KOREA: Radio Korea, Seoul with a good, but fluttery, signal at 1401 on 01-03 with frequencies, schedule and ID. News from 1403. (MAC) Heard on 21-02 with a fair signal at 1425 with music. (HK)

17890 ECUADOR: HCJB on 20-03 at 1427. A fair to poor signal, with fading and distortion due to flutter. News report and religious message. QRM from Spanish National Radio, (beamed to Africa - ed), on the same frequency. (HK)

21490 AUSTRIA: Radio Austria International. A fair to good signal on 20-03 at 1446 with talk on the investment of automobile manufacturers in Austria. (HK)

21535 SOUTH AFRICA: Radio RSA with talk of African languages, a workshop for women and a medical file re malaria. Good on 14-03 at 1410. (BB)

25790 SOUTH AFRICA: Radio RSA with talk of small animals and bird superstitions, music, then review of education. Good on 15-03 at 1425 with some QRM. (BB)

1500 - 1559

11650 GUAM: KTWR - Trans World Radio, Agana, with ID at 1500, followed by programme run-down for broadcast. Fair on 15-03, with signal quite audible above some QRN. (C-EM)

15475 U S S R: Radio Moscow with excellent reception of a programme of jazz on 14-03 at 1545. (BB)

17840 CZECHOSLOVAKIA: Radio Prague on 14-03 with programme summary, news and commentary. Good at 1530. (BB)

17870 VATICAN STATE: Radio Vatican heard at 1509 on 20-03 in English with the conclusion of the broadcast. Sign-off at 1511 with "Praise be Jesus Christ" in English and Latin. (HK)

21535 SOUTH AFRICA: Radio RSA, beamed to North America, with poor reception of a newscast on 20-03 at 1504. (HK)

1600 - 1659

7415L PIRATE: WGAR with good reception on 10-03 at 1642. Talk of Hare Krishna and the history of the religion. ID and sign-off at 1712, with location given as near Gary, Indiana. (RR)

17620 FRANCE: Radio France International at 1600 with ID "This is Radio France International in Paris", followed by programme highlights and news. Very Good on 04-03. (MAC)

17640 UNITED KINGDOM: BBC World Service. A very good signal, beamed to Europe and the Middle East, with the programme "Science in Action" at 1625 on 23-03. Easily heard over WYFR on same channel. (AG)

17765 DENMARK: Radio Denmark, via Norway, in Danish with an excellent signal on 23-03 at 1650 with talk in Danish. ID in English at 1654, followed by ID and frequencies in Danish. Off at 1657, then a poor signal, in French, from Radio Deutsche Welle was audible, but lost to IS of Radio Norway International at 1659 with ID in English at 1700. (AG)

1700 - 1759

13605 UNITED ARAB EMIRATES - ABU DHABI: Voice of the UAE with Home Service in Arabic to North Africa and Southern Europe. Arabic music - male vocal with accompaniment, heard with a poor but steady signal on 15-03 at 1750 until lost to Kuwait signing on 13610 at 1800. (C-EM)

21505 CZECHOSLOVAKIA: Radio Prague with news and commentary on Lithuania and Russia. Excellent on 12-03 at 1730. (BB)

21600 WEST GERMANY: Radio Deutsche Welle in French to Africa with good reception of African music on 11-03 at 1735. ID in German and French at 1749, followed by frequencies in French. Transmitter site in German, then off at 1750. (AG)

25730 NORWAY: Radio Norway International in English to Africa on 11-03 at 1710. Programme "Journey Through Norway", with a short story about a polar bear. Fair reception, with ID at 1729. (AG)

1800 - 1859

13610 KUWAIT: Radio Kuwait. One time-pip at 1800 and ID in English. Anthem, frequency rundown and review of upcoming programmes. Fair on 15-03. (C-EM) Fair signal on 07-03 at 1841 with local weather and news headlines. (HK)

15040 BANGLADESH: Radio Bangladesh at 1859 with English sign-off announcement and address. Fair on 11-03. (JF)

15575 KOREA: Radio Korea in English with the programme "Let's Sing Together" at 1835 on 23-03 with a good signal. Typical Korean vocals, with announcer explaining what the song was about. Letters to the programme were invited as there would be a new song to learn in April. Mailing address given. ID at 1839, followed by commentary. (AG)

15590 U S A: KUSW, Salt Lake City. A fair to good signal on 28-02 at 1815 with "Radio Revival Hour". Cassettes available for a donation to "Radio Revival Hour, Butler, PA, USA, 16001". (Harvey notes that this is a new frequency, not listed in PWBR or WRTH. It is not in the new ILG, but I have had it pencilled into my logs for several months - ed) (HK)

15630 GREECE: Voice of Greece in Greek to Africa. Talk and local music. Fair on 21-03 at 1825. ID at 1835. (AG)

17545 ISRAEL: Kol Israel. Home Service in Hebrew heard with a fair signal on 25-03 at 1840 with a programme of jazz. (AG)

1900 - 1959

7415 PIRATE: UNID. Fair reception, but with heavy noise, on 24-03 at 1944 of "Hello Dolly". Gone when noise cleared at 1951. (RR)

11915 SEYCHELLES: FEBA with IS of "What a Friend We Have In Jesus" at 1900, followed by ID and programming in Arabic. Fair to good on 10-03 with QRM from Radio Deutsche Welle on same frequency. (MAC)

11910 HUNGARY: Radio Budapest with programming on the Third Commercial Radio Station in Hungary and a feature on the Leader of the Popular Eastern Christian Democratic Party. Good on 12-03 from 1931. (JF)

15009.5 VIETNAM: Voice of Vietnam in English at 1906 with Vietnamese music, followed at 1912 by a programme about early 20th century Vietnam. Music, followed by ID and address at 1922. Very weak on 04-03. (MAC)

15058 An UNID signal, monitored from 1901 to 2000 with poor reception of a weak signal on 11-03. Light pop music. Address given as Box 854...(Signal lost to noise). Possibly Quality Radio, which uses an address of Box 85455, The Hague. (JF)

15615 ISRAEL: Good reception of the Home Service of the Voice of Israel in Hebrew at 1910 on 21-03. Mostly talk, with

some music. (AG)

17765 SOUTH AFRICA: Radio RSA with fair reception of a DX programme on 25-03 at 1940. Heavy QRM from BBC relay, Antigua, signing on from 1945. (AG) Fair, with QRM on 09-03 and talk of sanctions at 1930. (BB)

17825 QATAR: Qatar Broadcasting Service in Arabic with Mid-East music. Good on 26-03 at 1945. (AG)

2000 - 2059

7255 NIGERIA: Voice of Nigeria with fair reception of the conclusion of English programming. Drum beat IS, followed by programming in UNID language. Heavy noise level from local TVI. (AG)

7415L PIRATE: WPEF heard with a very good signal on 11-03 at 2037 with "WPEF" twice, then off. (RR)

7415 PIRATE: PRN - Pirate Radio New England. Good to very good receptionon 24-03. Carrier at 2026, then funny "Pirate Radio Song" done to the tune of "Let it Snow". ID, indicating test transmission. Address of Box 40553, Washington, DC 20016. Telephone number of 202-678-9948. Called and talked to the operator. Off at 2042.(RR)

7415 PIRATE: WXZR, signing on at 2043 on 24-03 with a very good signal, after PRN had signed off. Operator said "Hello" to PRN. Talked to WBNY, Radio Rhode Island and Rockabilly Radio. Slanesville, W. Va. address. (RR)

7415 PIRATE: WBNY - Radio Bunny with ID by person using a high-pitched voice. Washington address as per PRN, above. Good on 24-03 from 2053 -2055. (RR)

15205 MOROCCO: VOA relay with Willis Conover and "The Voice of America Jazz Hour", featuring the music of Dizzy Gillespie from 1937 to 1949. Reception ranged from fair to very good on 21-03 at 2010. Signal deteriorated after 2030. (AG)

2100 - 2159

7415 PIRATE: Radio Rhode Island. Very good on 24-03 from 2100 to 2106, talking to WXZR and Rockabilly Radio. (RR)

7415 PIRATE: Rockabilly Radio. Very good on 24-03 from 2100 to 2106, talking to WXZR and Radio Rhode Island.(RR)

9460 TURKEY: Voice of Turkey in Turkish with a programme of local music. Fair to good on 25-03 at 2108. (AG)

11500 CHINA: Radio Beijing with fair reception in English on 25-03 at 2145 with Oriental music and many references to China. This programme is beamed to Europe. (AG)

11720 IRAQ: Radio Baghdad, heard on 21-03 at 2140 with ID "This is Radio Baghdad, the Broadcasting Service of the Iraqi Republic", then song by Madonna. Terrible modulation, and transmission break came at 2157, then gone. Fair with interference from Radio Sofia. (HS)

11835 GABON: Radio Japan relay with Japanese/English language lessons. Good on 25-03 at 2124. ID at 2126, then music. (AG) Good, but with heavy QRM, on 17-02 at 2120 with talk and music. (BB)

11960 IRAQ: Radio Baghdad with Home Service in Arabic. Good reception of a programme of "pop" music on 25-03 from 2120. (AG)

15140 SINGAPORE: BBC World Service relay at 2115 with programme of classical music, birthday greetings and requests. Weak on 04-03. (MAC)

15330 BULGARIA: Radio Sofia in English with commentary on the slaughter of women, children and men in Panama by the US troops a few months back. Very good reception with letters from listeners, ID and local music on 25-03 from 2158. (AG)

17710 SOUTH AFRICA: Radio RSA with live coverage of the Namibia Independence Day from a stadium in Windhoek. Very good on 20-03 at 2150. //17765 was also good. (HS)

21566 COSTA RICA: Radio for Peace Inter-

national with English ID at 2158, music, then ID at 2200 "You are listening to Radio for Peace International broadcasting from the campus of the University for Peace in Costa Rica", then address. Good on 01-03. (MAC)

2200 - 2259

6005 CANADA: CFCX Montreal. Fair to good reception of news, sports, weather and traffic at 2205 on 26-03. ID at 2209. (AG)

6120 BRAZIL: Radio Globo, Sao Paulo heard with a poor signal on 12-03 at 2201 with "A Voz do Brasil". //17815. (JF)

7189 EQUATORIAL GUINEA: Radio Africa at 2203 on 26-03 with a very good signal. Religious programming, in English, with a programme that originated in Virginia. (AG)

7412 INDIA: All India Radio at 2214 with an economic report. ID at 2216 "This is the General Overseas Service of All India Radio". Fair on 13-03. (MAC)

7493 PIRATE: UNID. Heard at 2238 on 08-04 with poor to fair reception of a trumpet fanfare, repeated, followed by a man giving address of a box number in Clifton, New Jersey, ID of "Radio '?????????' Worldwide" and frequency. Signal then disappeared. (AG)

9064 CHINA: CPBS Beijing 1 in Mandarin, (standard Chinese), with man and woman apparently interviewing a man. Poor to fair on 01-03. (MAC)

9425 GREECE: Voice of Greece in English with commentary on the elections. Poor to good on 08-04 at 2245. Into Greek at 2150 with ID, then off. (AG)

9465 U S A: WSHB, Cypress Creek with a excellent signal on 22-02 at 2225. Detailed talks on Lebanon and an interview with a refugee in Cyprus. followed by "News Focus". (MC)

9655 THAILAND: Radio Thailand with a fair signal on 14-03 at 2258. IS, vocal Anthem and ID over instrumentals of "This is HSK9, Radio Thailand external service transmitting on 11.905 and 9.655 mhz in the 25 and 31 meter bands". MW and FM frequencies also given. Programming in English, with pop music. (RR)

11820 CUBA: Radio Havana Cuba with an excellent signal on 03-04 at 2252. International news, including further complaints of US jamming efforts. (GB)

15160 HUNGARY: Radio Budapest at 2229 with IS, Anthem and ID in Hungarian. Excellent on 08-04. (AG)

15445 NETHERLANDS ANTILLES: Trans World Radio in Portuguese with a strong signal on 21-03 at 2209. "Modulo DX" feature, as reported by Robert Ross in the March DXO. This feature dealt with receivers and antennas. (HS)

17690 LITHUANIA: Radio Vilnius at 2203 on 03-04 with commentary regarding Soviet troop intervention in the city. Very good reception of this topical and interesting programme. (GB)

2300 - 2359

6160 NEWFOUNDLAND: CKZN at 2316 with the programme "As It Happens". Good on 06-03. (MAC)

7415 PIRATE: KFBA with fair reception on 09-03 from 2349 to 0035. Rock music, with a DJ named "The Archer". ID as "KFBA - Broadcasters of Free America". Times in GMT. Said to send reports to Popular Communications. (RR)

7419 PIRATE: Relay of WEZW-FM, Wauwatosa, Wisconsin. Light pop/rock, several ID's and local ads. Good on 24-03 from 2321 to 0138. (RR)

9395 GREECE: Voice of Greece at 2326 with talk in Greek and local music. ID in English at 2333 "This is Athens. You are listening to the fifth programme of the Hellenic Radio and Television - the Voice of Greece. This programme is being beamed to South America", followed by frequencies and news. Good on 28-02. (MAC)

9655 THAILAND: Radio Thailand on 10-03 at 2325 with apparent economic com-

mentary in English. Pop music from 2331. Theme music and fanfare at midnight with partial ID "This is HSK9, the external service of Radio Thailand...". Fanfare, ID and news, mostly domestic, until 0010. Poor to fair with severe co-channel splash at times, fading out by 0020. (DMC)

13605 UNITED ARAB EMIRATES - ABU DHABI: Voice of the UAE on 10-03 at 2315 with a good signal in English talking of inter-Arab trade, followed by press review. (MC)

13610 KUWAIT: Radio Kuwait with a good signal on 10-03 at 2328. Mid-East music, with talk in Arabic and mention of Islam and Kuwait. (MC)

13690 EAST GERMANY: Radio Berlin International heard at 2328 with IS and sign-off of English programming and. Back at 2330 in German with ID and frequencies. Good on 10-03. (MC)

13715 CZECHOSLOVAKIA: Presumed to be Radio Prague, as per WRTH, with a good signal of classical music at 2338 on 10-03. (MC)

13730 AUSTRIA: Radio Austria International in German to South America with a fair signal on 10-03 at 2336. Possibly a DX programme with many frequencies and stations mentioned. (MC)

15180 LITHUANIA: Radio Vilnius heard from 2300 - 2330 on 12-03 with a fair signal. The only item reported was of the first session of the Supreme Council of the Republic of Lithuania and the pronouncement of the restoration of independence on 11-03. Consistent references to the "Independent Republic of Lithuania". At 2323, a speech by a man and a woman in Lithuanian. A fascinating programme! (JF) ◆

Many thanks to all of our contributors.

Initials/Name and Location Receiver(s) Antenna(s)

BB Bill Ball, Oakville Kenwood R-5000, 50' wire N/S

GB Greg Brindisi, Collingwood Yaesu FRG-7700, longwire

DMC Dave Clark, Newmarket JRC NRD-515, Drake R-4B, Collins R-390A Antenna Farm

MAC Mark Coady, Toronto Sony ICF-2010 60' wire/120mb loaded Windom

MC Marshall Cubitt, Smiths Falls Sony ICF-2001 80m dipole

JF John Fisher, Amherstview ICOM R71A, HQ 180A 10 m inverted "L"

DG Dan Greenall, London Panasonic RF3100, Long wire

KJ Karlis Jansons, Willowdale Sony ICF-2010 80' wire/Grove Minitune

HK Harvey Kader, Scarborough JRC NRD-525, Grundig Satellit 650, Sony ICF-2010 Sony AN-1 Active

C-EM Cindy-Ellen Morgan, WhitevaleYaesu FRG-8800/FRT-7700 Antenna Tuner, 180' Inverted "L"

RR Robert Ross, London Kenwood TS440SAT, Sony ICD-2010 Long-wire/dipole and vertical

RR-N Robert Ross, at NewmarketSony ICF-2010 Dave Clark's antenna farm

HS Harold Sellers, Newmarket JRC NRD-515 60mb Windom, 50' random, 19mb Dipole

AG Al Gastle, Willowdale Sony ICF-6800W, DA100D Active

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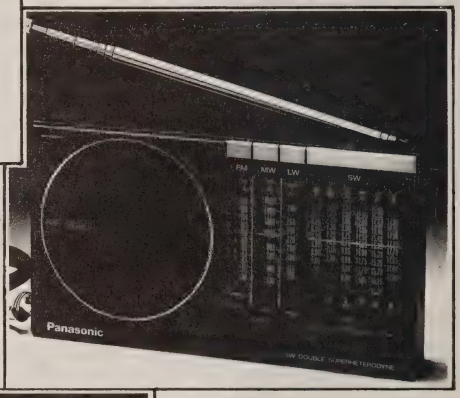

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- ❑ $2.00 ppd — **DXer's Shortwave Radio Country List -** NASWA country list and rules, with detailed maps. Keep track of the countries you hear.
- ❑ Free — **ODXA Membership Directory** - current March 31, 1990. A listing of full and associate members (both alphabetically and geographically). Available to ODXA members only.
- ❑ Free — **ODXA Brochure** - 8-1/2"x11" brochure introducing the DX hobby and the ODXA
- ❑ Free — **ODXA Business Card** - great to give to those seeking further information about the club. Small quantity sent.
- ❑ ~~$8.00~~ +T — **ODXA Coffee Mug** - blue, 10 oz., "DXers are Fine Tuned Individuals" design — **Sold Out**
- ❑ ~~$20.00~~ +T — **Sweatshirt** - with ODXA Logo, black/green on white shirt — **Sold Out**

DIRECTORIES - To Make Your Listening Easier

- ❑ $9.50 — **Pirate Radio Directory,** 1990 edition - by George Zeller, survey of pirate activity in 1990, lots of info, including addresses
- ❑ $25.00 — **World Radio TV Handbook, 1990 edition** - all stations listed, frequency lists, addresses, schedules and much more; also articles and reviews
- ❑ $18.00 — **Passport to World Band Radio, 1990 edition** - a best seller; graphical listings of SW stations by frequency 2.0 to 25 MHz; plus articles, equipment reviews
- ❑ $22.00 — **Confidential Frequency List,** 7th edition - an excellent reference to utility listening - covers aeronautical, maritime, fixed stations
- ❑ $20.00 — **Shortwave Directory,** 6th edition - New, just released by Grove Enterprises. A top utility reference.
- ❑ $16.00 — **Time Signal Stations,** 11th edition by Gerd Klawitter, lists and articles on the world's time stations
- ❑ $11.00 — **FM Atlas and Station Directory,** 12th edition by Bruce Elving, location/freq lists, maps
- ❑ $20.00 — **AM Radio Log,** 9th edition, by National Radio Club lists North American AM broadcast stations; lots of info
- ❑ $25.00 — **Aeronautical Communications Handbook,** HF edition by ODXA's Bob Evans - 260 pages, THE authoritative reference on aeronautical listening
- ❑ $17.00 +T — **Haruteq Scanner Guide,** Ontario Edition - extensive listings of Ontario VHF and UHF frequencies for scanner monitors

REFERENCES - Books for the Beginner and the Pro

❑ $20.00	**Shortwave Listening Handbook** by Harry Helms - an excellent book for the beginning SWL; covers antennas, receivers, propagation, QSLing, etc.
❑ $8.00	**So You Bought A Shortwave Radio** by Gerry L. Dexter - brief, introductory book for the beginner
❑ $24.00	**Proceedings 1989** by Fine Tuning - hundreds of pages, all articles and reviews; highly recommended for those ready to advance their knowledge
❑ $13.00	**Shortwave Propagation Handbook** by Jacobs and Cohen - 150 pages; an excellent guide to understanding how radio siganls propagate around the world
❑ $6.00	**The World Below 500 kHz**, by Peter Caron - 64 page guide to listening to longwave band
❑ $9.00	**Shortwave Receivers Past and Present** - 104 pages of old and recent receivers profiled by Fred Osterman
❑ $20.00	**Easy-Up Antennas for Radio Listeners and Hams**, by Ed Noll - an excellent book on antennas, with photographs, diagrams and full descriptions
❑ $25.00	**Sunrise-Sunset Map Set**, Great Circle Map set, by Cedric Marshall - maps are centred on Toronto
❑ $15.00	**Language Lab** - guidee to writing reception reports; includes lists of words and phrases. Available in ❐ Spanish, ❐ Portuguese, ❐ French (please check)
❑ $6.00	**Frequency Spectrum Chart** - frequency spectrum allocations shown on a coloured, 16"x20" wall chart
❑ $6.00 +T	**Sounds of Shortwave** - cassette tape by Bob Grove. Side 1 covers types of sounds we hear on SW, Side 2 looks at receivers, antennas, accessories
❑ $23.00	**The DX Edge** - a very helpful slide-rule device showing areas of worldin daylight/darkness year round; helps you understand how you hear DX

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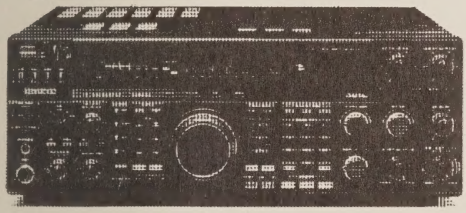

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